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# SMOS

# Summary of Meteorological Observations, Surface

AD-A150 599

STATION:

#93901 Dallas, TX

PERIOD:

HOURLY 1/73-12/82

DATLY 3/45-12/82

JOB NO. 72006

DATE

August 1984

PREPARED BY
NAVAL OCEANOGRAPHY
COMMAND DETACHMENT,
FEDERAL BULLBURG
ASHEVELS R.C. SAME

PREPARED FOR COMMANDER, MAYAL OCEANOGRAPHY COMMAND NETL MS 39529 UNCLASSIF IED

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REPORT NUMBER	2. GOVT ACCESSION NO.	3. RECIPIENT'S CATALOG NUMBER
. TITLE (and Subtitle)		5. TYPE OF REPORT & PERIOD COVERED
Summary of Meteorological Ob		Reference Report 1973-1982
Dallas, TX	(SMOS)	6. PERFORMING ORG. REPORT NUMBER
. AUTHOR(e)		B. CONTRACT OR GRANT NUMBER(a)
NA		
PERFORMING ORGANIZATION NAME AND	ADDRESS	10. PROGRAM ELEMENT, PROJECT, TASK AREA & WORK UNIT NUMBERS
Naval Oceanography Command D Federal Building		A CONTRACTOR OF THE CONTRACTOR
Asheville, NC 28801  Controlling Office name and addr	FEE	12. REPORT DATE
Commanding Officer	<del></del>	August 1984
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NSTL. MS 39529-5002	•	358
MONITORING AGENCY NAME & ADDRESS	(if different from Controlling Office)	15. SECURITY CLASS. (of this report)
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6. DISTRIBUTION STATEMENT (of this Report Approved for public release; 7. DISTRIBUTION STATEMENT (of the abstract	distribution unlimite	d.
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UNCLASSIFIED SECURITY CLASSIFICATION OF THIS PAGE

STATION NO ON SUMMARY STATION ELEV 1FT) WWO SUMBER CALL SIGN 93901 Dallas, Texas 32°44'N 96°58'W 495 KNBE STATION LOCATION AND INSTRUMENTATION HISTORY NUMBER OF BARD AT THIS LOCATION LATITUDE GEOGRAPHICAL LOCATION & NAME LONGITUDE LOCATION STATION FEET TYPE BARDWETER FROM TO Weather service office USN 1949 1957 32°44'N 96°58'W 469 Tonnelot Var 2. 1957 1967 24 1969 3. 1967 24 4. Removed November 1969 Weather service office 1961 1967 1a. 474 24 Aneroid 11 1ъ 1967 24 SURFACE WIND EQUIPMENT INFORMATION BATE REMARKS ADDITIONAL EQUIPMENT, OR REASON FOR CHANGE TYPE OF HT ABOVE GROUND CHANGE LOCATION TRANSMITTER RECORDER Atop building 20 1. Installed Unknown 751 Unknown 1. Barograph (ML-3) 2. Auto Met station (AN/GMQ-29) AN/UMQ-5 3. Cloud height set (AN/GMQ-13) 1961 1600 feet northwest of weather RD-108 10' service office, adjacent to 4. Transmissometer (AN/GMQ-10C) runway 17-35 5. Ceiling light (ML-121) 15' 3. 1966 500 feet east of center line of RD-108B runway 17-35 and 350 feet southwest of center line of taxiway #3 1975 RD-447/ 18' 4. 500 feet east of center line of GMQ 29 runway 17 - 35 .

NWSD. Federal Building

#### SUMMARY OF METEOROLOGICAL OBSERVATIONS, SURFACE

This update includes the period of record (POR) 1973 through 1982, with all available data through 1982 for extreme values.

This summary should be retained by individual stations along with the SMOS prepared in 1973. The retention of these summaries will provide the most comprehensive climatological file for your station.

<u>DESCRIPTION</u>: Preceding each section is a brief description of the data comprising each part of the summary and the manner of presentation. Tabulations are prepared from 3-hourly and daily observations recorded by stations operated by the U.S. Navy and U.S. Marine Corps. 3-hourly observations are defined as these record or record-special observations recorded at scheduled 3-hourly intervals. Daily observations are selected from all data recorded on reporting forms and combined into Summary of the Day observations (prepared from record-special, local, summary of the day, remarks, etc.).

<u>comment</u>: All observations summarized in this tabulation have been computer edited for consistency and reasonableness prior to, or during the processing stage. Efforts to improve the quality of the data after summarization are expensive, i.e., the improvement might consist of the elimination of one suspect or erroneous value. The cost of preparing "perfect" copy can be prohibitive due to the handwork involved. Suspect cases will occur infrequently, but users should not disregard extreme values completely as some could be valid. Questionable values will most likely be single occurrences shown by a percentage frequency of "O". (This value indicates a percent less than ".05," which, in most cases, reflects a single observation.) Since most stations summarized now have in excess of 10,000 3-hourly observations, the occurrence of an occasional spurious value should not in itself be considered significant. Every effort is made by this office to maintain a high degree of accuracy and reliability in these tables, and the Naval Oceanography Command Detachment (NOCD), Asheville, N.C. welcomes your comment and criticisms.

NOCD, Federal Building Asheville, N. C.

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#### PART A

#### WEATHER CONDITIONS

This summary is a percentage frequency occurrence of various atmospheric phenomena and obstructions to vision, derived from 3-hourly observations, and is presented in three tables as follows:

- 1. By month and annual, all hours and years combined.
- 2. By month and annual, all hours and years combined, by wind direction.
- 3. By month, all years combined, by standard 3-hour groups.

Occurrences of the various phenomena included in each category on the forms are listed below:

Thunderstorms - All reported occurrences of thunderstorm, tornado, and waterspout.

Rain and/or drizzle - All liquid precipitation, falling to the ground, not freezing.

Freezing rain and/or freezing drizzle (glaze) - Precipitation falling in liquid form, but freezing on contact with an unheated surface.

Snow and/or sleet - Included are snow, sleet, snow pellets (soft hail), snow grains, and ice crystals.

Hail Occurrences of hail and small hail are included.

Percentage of observations with precipitation - Included in this category are the observations when one or more of the above phenomena occurred. Since more than one type of precipitation may be reported in the same observation, the sums of the individual categories may exceed the total columns.

Fog - Included are fog, ice fog, and ground fog.

Smoke and/or haze - Occurrences of smoke, haze, or combinations of smoke and haze are included.

Blowing snow - Occurrences of blowing snow (also drifting snow when reported from non-WBAN sources.)

Dust and/or sand - Included are blowing dust, blowing sand, and dust.

Blowing spray - This item if reported, is not shown in a separate category on this form but is included in the computation Percentage of Observations with Obstructions to Vision.

Percentage of observations with obstructions to vision - Included in this category are the observations when one or more of the above obstructions to vision occurred. Since more than one type of obstruction may be reported in the same observation, the sums of the individual categories may exceed the percentage total columns. Also, although precipitation may reduce visibility, it is not considered an obstruction to vision for purposes of this summary; therefore, the percentage total of obstructions to vision need not reflect the total observations with reduced visibility.

NOTE: The total number of observations may vary among tables within the same month and period. Percentages may not always equal 100.0 due to rounding practices.

A - 2

#### PART A

#### ATMOSPHERIC PHENOMENA

This summary is a presentation of the percentage of days with occurrences of various atmospheric phenomena. These data are obtained from all recorded information on the reporting forms and combined into a daily observation.

The descriptions of the phenomena in the Weather Conditions Summary above also apply for the categories summarized in these tabulations. However, it should be noted that in this summary the columns headed "\$ OF OBS WITH PRECIP" and "\$ OF OBS WITH OBST TO VISION" show the percentage of days rather than percentage of observations. Since more than one type of precipitation or more than one type of obstruction may occur in the same daily observation, the sum of the values in the individual columns may not equal the total columns.

This presentation is by month with annual totals, and is prepared with all years combined.

NOTE: A day with rain and/or drizzle was not separately reported in WBAN data prior to January 1949.

Therefore percentages in this column are restricted to the period January 1949 and later.

A day with dust and/or sand was punched and included in this summary only when visibility was less than 5/8 mile.

Percentage Frequency of Wind Direction vs. Weather Conditions - This tabulation is derived from 3-hourly observations and is presented by month and annual, all hours and years combined. The main body of the Summary consists of weather conditions (horizontally) and wind directions (vertically) to 16 compass points (plus calm). Column totals show the number of observations. "% Total" indicates percentage frequency of occurrences.

STATION STATION NAME VEARS MONTH

রতে তার্তিত্ব তার জনতি তার তার্তির কার্তির হৈ কার্তির সাধ্যয় সংগ্রাহিত করিছে । করিছে সংগ্রাহিত করিছে একতি হার ভারতির তার্তির ক্রিক্তির একতি ছব

MONTH	HOURS (LS.T.)	THUNDER- STORMS	RAIN AND/OR DRIZZLE	FREEZING RAIN &/OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND/OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS.
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타 :			1	•	1.5	• 3	70.2	76.03	13.4		• 1		<u>.</u>
ນ ເ			]	1.4	7.2	•1	71.4	24.7	11.	• 1	1.	34	ţ. <del></del>
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STATION STATION RAME 13-13

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MONTH	HOURS (L.S.T.)	THUNDER- STORMS	RAIN AND/OR DRIZZLE	FREEZING RAIN &/OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND/OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS.
نمد			8.1		1.6			11.	• 3			11.2	
	9.5	1.0	9 • *;	1.5	1.0		17.2	14.5	• 1			140 2	-1-
	25		7.1	2.7	1.3		15.5	1:.5	•			15	717
-	3.5		7.7	1.7	5		15.5	24.2	2.5				71.
	12	. 6	9.4	1.0	2.0		12.5	13.5	1.1		• 3	14	-1.
	15		3.7	. 6	1.6		15.6	12.5	1			13.7	31.
	17	1.0	7.1	1.9	1.5		2.7	12	2.6		ز٠	11 .:	71*
-	21	. 3	9.4	1.6	1.0		11	1. • 5	1.0		• 2	11.6	~1~
TOTALS		4	3 - 2	1.4	1.6	• 5	11.0	14.3	1.3			15.7	242'

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MONTH	HOURS (L.S.T.)	THUNDER- STORMS	RAIN AND/OR DRIZZLE	FREEZING RAIN &/OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND/OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS.
rej	30			7	2.1		7.4				.,7	: , )	
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	د زر	.4	7.1		\$ <u>.</u> ?		10.5	75.0	5.4		.,	31.1	
	1.2		7.4	1.1	2.1		7.5	13.	3.	• •	• 4	17.	<b>^</b> , ^
	1.	<b></b>	€ • 4	• 7	. 7		7.0	11.7	3.1			1	317
	12		<u></u>	. (4	. 7				7.		1.1	1:00	2:1
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7-1-1													
TOTALS		.2	6.2	نغ و	1.9		9.3	12.9	2.3	.1	, ,	1.	225

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STATION STATION NAME

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монтн	HOURS (L.S.T.)	THUNDER- STORMS	RAIN AND/OR DRIZZLE	FREEZING RAIN &/OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND: OR SAND	OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS.
<u>. 1</u>		1.3	<u> </u>				-	, ∠et					
	<u>a:</u>	<u> </u>	5.2				F. e.c	7.4		· 			· , ·
	<u>C; f</u>	1.5	10.0				27.3	10.9	• '			1.	
		 	9.0		ئو ق		7,7	<u>. 14.5</u> 5	يا و ع			1	
	1:	- 3	5.5					<u></u>	?•?			:	
	1 .	1.0	5.5		• *			<u></u>	<u> </u>		. 3		1
	1:_	1.3	4.2				4 . 2	* • *.	1.0	: 	1.0		1
	21	2.3	5.4				5.				1.:	,,,	740
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							1 1		· · <u>-</u>				
TOTALS		1.3	ڈوڈ.		1		206	5.4	1.4			2.7	2521

STATION STATION NAME YEARS MONTH

PERCENTAGE EREQUENCY OF OCCURRENCE OF LEATHER COMMOITIONS ERGH HOURLY DESCRIVATION

монтн	HOURS (L.S.T.)	THUNDER- STORMS	RAIN AND/OR DRIZZLE	FREEZING RAIN &/OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING		% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS.
L 47.	3.	1.3	6.7				2.7				• 7	3 ,	
	<u> </u>	1.3	5.3				ز و د	4.7		:			• • • •
	4 ن	1.3	7.7				7,7	1'	ų,	: :	•,	13.5	
	.79	. 3	7.				7.	: • ?	7.	<u>i</u>		16.	<u> ::::::::::::::::::::::::::::::::::::</u>
	1.7		9.3				4.5	. • 3	2.3	I		7,	7 10
	1-	. 7	5				5.00		•		• .	u - 7	• ;
	1.	3.6	. و ي				f. • 3	<b>4</b> • .	2.3		1.0	7.7	s - <del>-</del>
	,1	7 • 7	6.				1		1.7		• ;		3
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												<u> </u>	
TOTALS		1.3	6.4				5.7	ئ و ر	2.4			€ • 4	24.5

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STATION	STATION NAME	YEARS	HTHOM

PERCENTAGE FREQUENCY OF OCCUPATIONS OF WEATHER CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (L.S.T.)	THUNDER- STORMS	RAIN AND/OR DRIZZLE	FREEZING RAIN &/OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING	DUST AND/OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS.
13.Y		7.6	4.5				4.5	1.7	<u> </u>			1.5	315
	51.7	3.9	8.1				1	40	• ?			4,7	11:
	.0.5	2.9	3.7				7 ن	24.5	F . 7			71.4	717
	ij s	1.0	7.1				7.1	7 • 4	7 . 4			13.3	37.4
		3.9	5.3				5.0	, , , ,	4.5			6.1	117
	15	1.6	5.3				5.6	1 • 5	3 • 2			٠,۶	713
	12	3.2	4.5				4.1	1.3	2.4			7.9	310
		5.5	5.8				6.5	• 12	1.3			1.7	120
· · · · · · · · · · · · · · · · · · ·											_		
TOTALS		3.2	5.5				<i>5</i> • 5	5.5	3			: • 4	2479

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PERCENTAGE FREQUENCY OF OCCURRINGE OF REATHER CONCITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (L.S.T.)	THUNDER- STORMS	RAIN AND/OR DRIZZLE	FREEZING RAIN &/OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND/OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS.
υ <mark>υ</mark> Ν	J.	2.7	4.0				4.0						700
	97	4.0	5.0				5.0	1.3				1.3	783
	Q4.	7.3	5.0				5.0	7.3	5.7			12.3	305
	ပ္မွာ	2.3	3.7				7.1	1.3	3.7			5.0	300
	12	1.0	3.7				3.7	. 7	1.7			2.3	<u>. 100</u>
	15	1.0	2.3				2.3	• 3	• 3			.7	300
	15	3	2.3				2.3		. 3			. 3	792
	21	2.3	3.0						• 3			• 3	300
!			<u></u>			~				· , <u></u>			<u> </u>
									· · · · · · · · · · · · · · · · · · ·				
TOTALS	l	2.4	1.0				3.6	1.4	1.5			2.3	2400

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STATION	STATION NAME	YEARS	MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER CONFITIONS FROM HOURLY OBSERVATIONS

нтиом	HOURS (L.S.T.)	THUNDER- STORMS	RAIN AND/OR DRIZZLE	FREEZING RAIN &/OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND/OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS.
JüL	53	1.6	2.5				2.5		1.7			1.3	<u> </u>
	07	, 0	2.3				- 3	<u>• 3</u>	1.5			1.6	717
	35	1.0	1.5				1.6	2.6	6.1			7.7	31-
	39	• 3	2.0				3.6	1.5	4.2			5.2	317
	12.	. 3	2.3				2,3	• 3	2 • €			2.9	*13
	1 =	?.3	2.4				2.6	. 5	1.5			1.9	310
	1 =	4.2	5.2				52	<b>.</b> ₺	7.0			3.4	310
_	:1	2.6	3.5				3.5	٤ •	1.3			1.6	7] n
	····		-										<u>.</u>
TOTALS		6	2.9			<del>-</del>	2.9	. 7	2.0			3.2	2479

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PLYCENTAGE FREQUENCY OF OCCUPATINGE OF WEATHER CONCITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (L.S.T.)	THUNDER- STORMS	RAIN AND/OR DRIZZLE	FREEZING RAIN &/OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING	DUST AND/OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS.
-£Þ	23	. 3	5.7				5.0	1.3	1.1			2.7	300
		. 7	د ه				K = 3	ti .	1.,			5.5	322
	05_	3	7.7				7.7	13.3	9.2			26.0	<u> </u>
	52	1.0	6.7				8.7	1	12.0			19.7	305
	1:	. 3	5.3				5.7	7.3	7.7			15.7	<u> 100</u>
	1:	. 7	4.7				4.7	1.7	3.3			7.5	<u> 3an</u>
	1=	. 7	5.7				6.7	1.7	3.7			5.0	35.5
_	21_	1.3	6.0				6	2.7	1.5			4 . 5	100
TOTALS		.,7	6.3				5.3	4 . 3	5.0			9.0	2400

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STATION	STATION MANE	YEARS	MONTH

PERCENTAGE FREQUENCY OF OCCUPRETICE OF MEATHER CONDITIONS FROM HOURLY OBSCRIVATIONS

нтиом	HOURS (LS.T.)	THUNDER- STORMS	RAIN AND/OR DRIZZLE	FREEZING RAIN &/OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND/OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS.
ELT.		. 6	1.3				1.5					. 3	310
	93	1.3	1.3				1.3		• ]			.6	*10
	96	1.3	2.6				2.6	4.2	14.2			16.1	710
	.]9	. 6	3.2				! • 2	1.3	5.1			4.4	21"
	1.2	. 3	2.3				7.3	. 3	3.0			4 . 2	310
	15	1.3	1.0			ļ	1.3		1.6			1.6	210
	10	1.6	2.6						1.5			1.0	310
	21		1.3		<del></del> -		1.7	<u>•</u> 3	• 6			.5	313
	<del></del>												<u> </u>
			-										
TOTALS		. 8	2 • 1				2.1	• 0	3.9			4.3	248-

NAVWEASERVCOM

4

STATION STATION HAME YEARS

PERCENTAGE PREDUENCY OF OCCUPRENCE OF WEATHER CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (L.S.T.)	THUNDER- STORMS	RAIN AND/OR DRIZZLE	FREEZING RAIN &/OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMORE AND/OR HAZE	BLOWING SNOW	DUST AND/OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS.
CST	03	1.3	5.5			<del></del>	5.5					3.4	*12
	37	. 6	4 . 5			: 	4.5	<u>٠٠:</u>				3.5	717
	26	1.0	6.5				6.5	P • 4	1.5			9.0	710
	39	1.0	5.5				6.5	9.4	5.6			12.9	717
	12	.3	5.				5.5	2.9	1.7		3	5.2	71^
	1 =	.3	4.5				4.5	2.3	•6			2.9	310
	1:	1.3	4.5				4.5	?.5	1.7			3.5	712
	21	• 6	3.2				7.2	2.3				2.5	710
							1						
											,		
TOTALS		. 8	5.1				r . 1	4.3	1.4		• S	5.4	2480

PERCENTAGE FREQUENCY OF OCCUPRENCE OF REATHER
CONDITIONS FROM HOURLY CRISERVATIONS

MONTH	HOURS (L.S.T.)	THUNDER- STORMS	RAIN AND/OR DRIZZLE	FREEZING RAIN &/OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND/OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS.
HCV	33		5.5				5.7	<b>.</b>				£	707
	8.7	3	5.7		. 3		7.	٥,3				2	103
	31	.,,	7.3				7.3	12.7	. 3			13.0	113
	ع بر		5.7				5.7	17.7	4.7			21.3	300
	1:		5.7			···	5.7	9.	200			11.9	300
	15	. 3	5.3		. 7	·	1	• • 3	2.0			6.7	<u> </u>
	13	. 7	5.7	. 3			5.0	15 <u>o</u> 7	1.7	_		<u> </u>	307
	21	ļ	4.7				4.7	1.7	• 3			2,,	130
		ļ								ļ			
		ļ											·
TOTALS			5.4		. 2		6.2	±?	1.4				2400

PERSONTAGE FREQUENCY OF OCCUPATIONS OF WEATHER COMPLITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (L.S.T.)	THUNDER- STORMS	RAIN AND/OR DRIZZLE	FREEZING RAIN &/OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	POG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND/OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS.
ne c	_00_			. 3			1 to 1	7.4				A.1	*12
	0.3	5	5.3	5				3.1	• (	!	. 3	9.7	717
	36	.3	7.1		• 3		7,4	<u></u>	. 3			7.4	712
	38		6.3				5	12.3	4.5	ļ		15.5	310
	12	. 3	7.4		. ,		7.4	7.7	2.6	<u> </u>		17.5	115
	1		5.2	. 7	,		4.1	7.1	3.		ذ و	10.3	71-
	1 =		7.04				5.2	7.1	2.5		• 6	13.5	7.26
			۲.,	• 3			€.1	6.08	• 7		.3	7.4	736
TOTALS		• 2	6	• 2	. 2		6.5	۲•3	1.5		• 3	1 . 13	247:

, 10 1	DALLAS. TX	77-63	# £ t
STATION	STATION NOITATE	YEARS	HORTH

PERCENTAGE FREQUENCY OF DOCUMENT OF SELECTIONS CONDITIONS FROM HOUSELY CASERVATIONS

MONTH	HOURS (L.S.T.)	THUNDER- STORMS	RAIN AND/OR DRIZZLE	FREEZING RAIN &/OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING	DUST AND/OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS.
	<u>št L</u>	- 4	3_~	1.4	1.5		11 a i	1405	lei		a	1:.7	76:5
953		2	£ a Z	. 9	1.5			اعتا	2.1	• 1	. 7	1:.	2250
MAD		1.3	6.5		1		6.5	ې <b>د</b> د	104		• •	3.7	242.
35.5	<u> </u>	1.0					5.2	2•9	<u> </u>	! !	• 3	•	24 ;
AY		5.2	<u>. 6.2</u>						7.5		, 		2474
1,33		7,4					3.3	1.5	1.6			2.5	27-30
Jul_		1.6	2.7			· <del>_</del>	2.3	• 7	202			7.2	2479
احمقا		.3	2.1				2.1	• ·	3.~			0.3	243
		7					50?	ч <u>.</u> :	سوڅ .			2.1	2437
		4.5	_5.1						1.4			C gis	24 ( )
1.54		. 3	5	نىسا	. 2		<u>uaë</u>	<u>5.7</u>	فعل		!	103	2433
72.6		. 2	6.2	2			5.5		1.5			12.0	2472
TOTALS		_:.1	_5.5	. 2	3		5.3	li a 2	.2.4	ته	2	5.4	29212

TALLAS, TX

JANUARY 1973-DECEMBER 1982

WIND DIRECTION	RAIN	RAIN SHOWERS	DRIZZLE	FREEZING RAIN FREEZING DRIZZLE	SLEET SHOWERS ICE CRYSTALS	SNOW GRAINS PELLETS SHOWERS	HAIL SMALL HAIL	THUNDER	FOG	ICE FOG GROUND FOG	SA*OKE HAZE	BLOWING SNOW	BLOWING SANG AND	N Z W F A THEP
N	4.3	•6	6.8	2.5	• 3	1.6			12.4		. 6			42.3
NNE	3.7	. 9	6.4	4.6	.9	5.5		• 9	71.1		• 9			73.4
NE	11.5		13.2	1.3	1.3				23.7		1.3			71.1
ENE	10.5	2.1	14.9	10.6	4.3	4.3		2.1	36.2			<del> </del>	•	51.1
E	!1.5	1.3	12.8	2.6					17.9		3.8			55.4
ESE	5 . 7		4.3						27.5		5.8			66.7
SE	1.1	1.1	7.8	1.1					16.7	2.2			1	78.9
SSE	3.0	1.5	2.1		• 5			• 5	12.4	• 5	1.5	Ī		82.0
s	1.	.9	. 9	• 3		• 3		. 3	8.7	• 6	1.8			87.
ssw	2	• 5							4 . 3		1.2	1		91.5
sw	3 . 4	1.9							3.0			i	1.9	90.4
wsw	2.4	2.4			2.4		2.4	2.4	9.5		2.4			83.3
w	5.5	1.8	1.8	1.8	1.8				14.5		3.6		1.8	74.5
WNW	2.7	2.7	5.3	1.3		2.7		1.3	16.0			I		P1.3
NW	₹•2	3.2	4.8	1.1	1.6	2.7		1.6	16.1	. 5	• 5			78.5
NNW	2.4	1.8	3.6	2.2	. 4	2.2			11.5		• 7	. 4		85.2
VARIABLE														
CALM	><<	>46			$\geq 4$	<b>&gt;</b> ₹	$\geq \leq$		75-5	<b>&gt;</b> ₹	) de			77.
TOTAL	2 :	31	112	36	13	28	1	9	351	9	33	1	. 2	1998
TOTAL	3.	1.3	4.5	1.5	• 5	1.1	• 5	. 4	14.2	. 4	1.3	• 0	ī	8C.6

TOTAL NUMBER OF OBSERVATIONS

2,493

JANUATY 1973-P CEMBER 1982

WIND DIRECTION	RAIN	RAIN SHOWERS	DRIZŽLE	FREEZING RAIN FREEZING DRIZZLE	SLEET SHOWERS ICE CRYSTALS	SNOW GRAINS PELLETS SHOWERS	HAIL SAIALL HAIL	THUNDER	FOG	ICE FOG GROUND FOG	SMORE HAZE	BLOW-NO SNOW	BLL AND CONTRACT A	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
N	7. 7	•4	4.5	1.8	.9	2.7			7 .2	<del> </del>	3.1	<b>†</b>	r	74.3
NNE	7.5		3.8	1.3	2.5	3.8		1	17.7	1	5.1	-	•	73.4
NE	14.0	2.1	4.3	4.3	6.4	6.4		2.1	23.4		4.3	1	•	56.6
ENE	7.7		11.5	11.5	3.8				70.8	i				63
E	12.		8.8	7.5	2.5	5.0			23.8		1.3	-		69.8
ESE	3.1	2.6	€.4		1.3			1.3	14.1	1.3	3 . B			76.0
SE	7.	1.0	4.0					1.0	10.2	2.0	1.3			78.3
SSE	2.0		. 6		. 5				10.0	• 0	3 . 3	1		44.4
S	1.2		1.4						7.3	• 5	• 5			۶٠.
SSW	• `-	.5	1.2						4.3	1				21.
sw	1.0								. 1	1.5	1.6			97.0
wsw	3 . 4.		3.6						"•1					35.7
w	3.7	1.2	1.2			1.2		1.2	4.9	1.2			1.2	7 45.2
WNW	3.2	1.1	1.1		1.1	3 . 2		I	7.4		I	1		14.77
NW	7.0	3.0	1.2		•6	• 6		. 6	12.7		1.2		•	63.1
NNW	2 • •	.4	1.3	. 9	2.2	3 • 1			14.5		4.4	. 4		78.1
VARIABLE								T				i_		
CALM	> <	$\geq \leq$	>>46	$\geq \leq$	$\geq \leq$		><		<b>&gt;</b>	1	>>-6			Buch.
				T				1				Ī	-	
TOTAL	- 3	14	56	18	19	38		5	281	15	46	<u> </u>	<u>1</u>	1449
TOTAL	2.7		2.5	. 8	. 8	1.2		•.7	12.5	. 4	2.5	, .D.	• €	42.4

TOTAL NUMBER OF OBSERVATIONS

- *	TALLAS, TK	JANUARY 1973-0: CEMBER 1982	MARCH	
STATION	STATION NAME	· + AR -	V X	

WIND DIRECTION	RAIN	RAIN SHOWERS	DRIZZLE	FREEZING RAIN FREEZING DRIZZLE	SLEET SHOWERS ICE CRYSTALS	SNOW GRAINS PELLETS SHOWERS	HAIL SMALL HAIL	THUNDER	FOG	ICE FOG GROUND FOG	5A+ 2+F ++47E	Br. W. N.	6. 2. A. A	*. A:A*****
N	•	3.1	1.6	• 5	• 5	• 5		2.6	3.1	T	.7.1	† -	•	48.1
NNE	3.0	5.0	2.5					2.5	5.		3.0	•	•	07.
NE	. • *	5.9	3.9					3.0	13.7			• • • • •	•	76.5
ENE	11	5.9	1.4						7.2	1.4	4.3	•	•	76.5
E	1 . 7	4.7	1.9					• 9	14.0	. 9	4.7	•	•	72.4
ESE	6.7	7.6	1.1					3.1	15.3	•	3.1	<del>*</del> · · ·	•	74.8
SE	1.	5.8	1.5					1.5	15.3	. 7	1.5	1	•	76.0
SSE	2.4	2.4	3 • 1	Ī				1.0	9.4	·	1.4	†		85.4
s	1.	1.6	• 8					ن و	4.7	• 2	. 4	• • • •	1	35.5
ssw	1.2	1.2	•6					1.0	₹ • 5	• 6	. 5	<del>*</del>		90.3
sw		1.6						3.1	4.7	†	1.6	1		95.9
wsw		4.7								2.4				92.
w		1.3						1.3	2.€	· ·			1.3	27.
WNW	1 • 3	2.4						3.5	2.4			,		91.0
NW	2.7	3.6			• 7			7.2	2.7					68.7
NNW	• •	• 3	• 5						7 • 3	Ī	. 5		•	C4.0
VARIABLE												Ť		· · · · · · · · · · · · · · · · · · ·
CALM	$\geq <$	$\rightarrow$	$\geq \leq$	$\geq \leq$	$\geq \leq$		$\geq \leq$	<b>&gt;</b> ₹	$\rightarrow \checkmark$	345	>			3547
TOTAL	ς, •	72	71	1	2	1		42	164	8	34		: . 1	2155
TOTAL	3	2.0	1.3	•0	• 1	• ~		1.7	5.6	- 3	1.4		• • •	36.9

2,460 TOTAL NUMBER OF OBSERVATIONS

STATION STATION NAME JANUARY 1973-D: CEMPER 1982 APRIL

WIND DIRECTION	RAIN	RAIN SHOWERS	DRIZZLE	FREEZING RAIN FREEZING DRIZZLE	SLEET SHOWERS ICE CRYSTALS	SNOW GRAINS PELLETS SHOWERS	HAIL SMALL HAIL	THUNDER	FOG	CE FOG GROUND FOG	SMOKE HAZE	BLOW NO SNOW	823 W NU 14107 4NO 2017	14.7 25.84.54.68
Ν	; . 4	4.7	2.7					1.4	• 1	1.4	1.4	<del> </del>	•	21.8 23.3 27.3
NNE	3.3	4.4	2.2						7.7	2.2	2.2		<b>†</b>	63.3
NE		5.6							13.9				<del>-</del>	27.3
ENE	4.0	4.0						4.0	12.0			1	•	a 4 .
E	2	8.4						• 9	10.3		. 3			61.2
ESE		5.4	• B					• 6	6.2		6.2	T	•	26.9
SE	2 •	5.8	1.9					4 . 3	7.2	• 5	6.3		1	77.0
SSE	<sup>7</sup> • 2	3.3	1.1		]			• 5	5.2	• 5	2.5	1		38.5
s	• 7	2.9	. 6					1.4	2.9	• 2	2.2	1		91.2
SSW	2 • 2	2.2	•7					1.4	5.0	<u> </u>	1.4		•	89.9
SW		5.1						2.0	10.2		2.0	!		P1.5
wsw		13.5						13.4	4.5		4.5		3.1	68.2
w	1.	1.3							3.0			Ť : :::	1.	89.1
WNW	1.3	3.9							1.3	1.3	1.3		1.3	95.9
NW			. 9						1.7					97.4
NNW	₹•1	3.5						• 7	5.0	. 7	2.1	:	• 7	89.4
VARIABLE												Ī ———	•	•
CALM	>	$\Rightarrow \checkmark$	$\geq \leq$				$\geq \leq$	> <		>	>4			1944
TOTAL	4	87	21	ĺ				32	129	13	5 9		5	2017
TOTAL	1.7	3.7	. 9					1.3	5.4	. 5	2.4		• 2	47.4

TOTAL NUMBER OF OBSERVATIONS 2.47.3

NAVWEASERVCOM

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9776	"ALLAS. TX		VARIIABL.	1973-DICEMPER	1982	MAY	
					1701		
STATION		STATION NAME		* E ARS		MONTH	40 Mg 19 Mg

WIND DIRECTION	RAIN	RAIN SHOWERS	DRIZZLE	FREEZING RAIN FREEZING DRIZZLE	SLEET SHOWERS ICE CRYSTALS	SNOW GRAINS PELLETS SHOWERS	HAIL SMALL HAIL	THUNDER	FOG	ICE FOG GROUND FOG	SMOKE HAZE	BLOWING SNOW	BLOWING SAND AND CUST	NO WEATHER
N	5.0	6.5	1.5					5.3	6.1		1.5			. 44.1
NNE	2.3	8.1						9.3	3.5		4.7		1	52.0
NE	2.3	7.0						4.7	2.3		2.3			36.1
ENE	2.0	10.2						8.2	4.1		4.1			86.1 79.6
E	2.	6.8						1.7	8.5		15.3		<del> </del>	72.0
ESE	2.1	3.5	.7					2.3	6.4	1	9.2			79.4
SE	1.0	2.1	1.6					1.6	5.3		3.7			88.5
SSE		3.2						3.2	3.2	. 3	2.1			90.3
s	• 2	2.0	. 3					.7	3.4	• 3	3.7			91.4
ssw	2 • 5	7.4						3 . 3	8.2					A2.7
sw		9.4						9.4		T				90.5
wsw														100.0
w	7 • 3	2.3	2.3					7.0	4.7				† !	97.7
WNW	2.3	4.1		L				9.2	4 . 1					85.7
NW	2.2	10.3	1.1					6.5	8.6	1.1				53.6
NNW	• 3	9.0	1.6					4 . 1	7.4	• 3	1.6			83.6
VARIABLE					Ĺ								i	
CALM	<b>&gt;</b>	$\nearrow \! \! \! \! \! \! \! \! \! \! \! \! \! \! \! \! \! \! \!$	<u>&gt;ব্</u>			$\geq \leq$	$\geq \leq$	74	>42		<b>≯</b> ⊀			334
TOTAL	34	113	14		}			79	129	7	58		Í	2137
TOTAL	1.4	4.6	•6		T			3.1	5.2	• 3	3.5			86.2

2.479 TOTAL NUMBER OF OBSERVATIONS

	"ALLAS. TX		JANUARY 1973-BECEMBER 198	2 JUNE	
			THEORY ! TAID HOLDER TAD	2 30%	
STATION		STATION NAME	TEARS	VONTH	H2.85 .5.7.

WIND DIRECTION	RAIN	RAIN SHOWERS	DRIZZLE	FREEZING RAIN FREEZING DRIZZLE	SLEET SHOWERS ICE CRYSTALS	SNOW GRAINS PELLETS SHOWERS	HAIL SMALL HAIL	THUNDER	FOG	ICE FOG GROUND FOG	SMOKE	BLOWING SNOW	BLOWING SAND AND DUST	NO A EATHER
N	3.6	7.9						5.6	3.4					85.4
NNE	1.7	1.7						3.4	5.1		3.4			89.8
NE	3 • ?	1.9						5.6	1.9		7.4			85.2
ENE	1.7	3.4						1.7	1.7		6.9			87.9
E		3.3						3.3	1.7					92.5
ESE	• 7	5.7	.7					1.4	.7		5.0			68.7
SE	3.2	3.3						3.3	1.6	• 5	2.7			89.6
SSE	• '	1.2						1.4	. 3		. 9			97.1
s	. 4	.7						1.1	. 2	• 1	. 9			27.3
SSW	• 1	1.7						1.7	1.1		1.7			94.9
sw		2.9						2.5						97.1
wsw	3	4.2						15.7		4.2				79.2
w									7.7		7.7		,	72.3
WNW		11.1			T			11.1				1		A 3 . 3
NW	1.07	10.0						16.7	6.7					76.7
NNW	3.5	4.4						2.3	4.4					89.7
VARIABLE														
CALM	<b>&gt;</b> ★€	<b>&gt;</b> ₩₹	$\geq \leq$			$\geq \leq$	$\geq <$	>4	<b>&gt;</b> ₹	<b>≯</b> •€	≯<			9000
TOTAL	2 :	58	1					57	28	5	39			2243
" TOTAL	1.2	2.4	•0					2.4	1.2	• 2	1.6			03.

TOTAL NUMBER OF ORSERVATIONS	2.475

9770.	MALLAS, TX	JANUARY 1973-DECEMBER 1982	JULY	
STATION	STATION NAME	YEARS	MONTH	4.7 9 - 15 -

WIND DIRECTION	RAIN	RAIN SHOWERS	DRIZZLE	FREEZING RAIN FREEZING ORIZZLE	SLEET SHOWERS ICE CRYSTALS	SNOW GRAINS "PELLETS "SHOWERS	HAIL SMALL HAIL	THUNDER	FOG	ICE FOG GROUND FOG	SMOKE HAZE	8LOWING SNOW	BLOWING SAND AND OUST	NO WEATHER
N	. 1	14.6	5.3					10.4	10.4		4.2			73.8
NNE		2 • 4						2.4	4.8		7.1			83.3
NE		7.7						2.6		2.6	7.7			82.1
ENE	3.7	5.6						7.4			13.7			75.9
E		6.4						5.6	. 8		8.0			85.6
ESE	• 7	1.5						2 • 2	.7		7.4			88.1
SE	• •	1.5	. 4					1.2	. 4	. 8	1.5			95.5
SSE	• ?	• 5	• 2					• 7		Ĺ	• 5			97.8
s		1.3	•1					• 5			1.0			97.1
SSW		• 7						• 7			1.0			97.6
SW		1.5				<u> </u>					1.5			97.0
wsw	7.4	3.4				T								93.1
w	4.7	4.8			I			4 . B						90.5
WNW		20.0						10.0				I		80.0
NW								5 • 3						74.7
NNW		7.1						9.1						96.4
VARIABLE														
CALM		$\rightarrow \checkmark$	$\geq \leq$		$\geq \leq$		$\geq <$	>4	<b>&gt;</b> ∙হ	<b>≯</b> €	> <			95
TOTAL	13	52	6		1			40	11	6	65			2322
% TOTAL	• •	2.1	•2					1.6	. 4	• 2	2.6			93.7

2,479 TOTAL NUMBER OF OBSERVATIONS \_\_\_

JANUARY 1973-DECEMBER 1982 TALLAS, TX

WIND DIRECTION	RAIN	RAIN SHOWERS	DRIZZLE	FREEZING RAIN FREEZING DRIZZLE	SLEET SHOWERS ICE CRYSTALS	SNOW GRAINS PELLETS SHOWERS	HAIL SMALL HAIL	THUNDER	FOG	ICE FOG GROUND FOG	SMOKE	BLOWING SNOW	BLOW NG SAND AND DUST	N.C. W.EATHER
ν		٥.6		1	1			1.4	4.2	1	5.6		• · · · · <u>-</u> ·	H8.7
NNE	3.5	5.7						3.8	3.8		7.5			61.1
NE		4.3						2.2	8.7		6.7	i	• !	79.5
ENE	3.4.	5.4						3.5	3.6		7.1			93.9
E		1.2						1.2	1.2		4.8		•	79.5 93.9 93.4
ESE									· č		3.0		1	95.6
SE		1.5		1				1.1			3.7			75.1
SSE		. 7						.7	• 5		2.5			96.3
S	• 5	• 5						• ?			1.6	İ	i	97.7
SSW		1.4						• 5			2.3	1		25.9
SW	2 • 5										2.5		· · · · · · · · · · · · · · · · · · ·	95.0
wsw		9.1						4.5					•	9 9 9
w	7.1	7.1										1		35.7
WNW	.2.2							T	11.1			1	• • •	77.8
NW		15.8						5.3			5.3			78.9
NNW								2.3	2.3		9.1		•	38.6
VARIABLE													•	
CALM	$\geq <$	>*<	$\geq \leq$	><	$\geq \leq$		$\geq <$	>₹	$\Rightarrow $	><	Med	$\geq \leq$	$\geq$	25-2
TOTAL	14	37						21	22		95		1 1 1	2319
% TOTAL	•	1.5		1	<u> </u>			. 9	.9		3.9		-	43.5

2,483 TOTAL NUMBER OF OBSERVATIONS \_

	CALLAS. TX	JANUARY 1973-D: CEMBER 1982	SESTEMBER	
STATION	STATION NAME	YEARS	MONTH	H 2 6 4

WIND DIRECTION	RAIN	RAIN SHOWERS	DRIZZLE	FREEZING RAIN FREEZING DRIZZLE	SLEET SHOWERS CE CRYSTALS	SNOW GRAINS PELLETS SHOWERS	HAIL SMALL HAIL	THUNDER	FOG	ICE FOG GROUND FOG	SMOKE HAZE	BLOWING	DUIT AND SAND BLOWING	NO WEATHER
N	- J	2.1	2.5					.4	9.2	. 4	6.7			78.
NNE	15.2	6.4	2.4					2.4	9.6		5.6			69.6
ΝE	14.9	2.0						2.0	9.9	3.	5.9			74.3
ENE	5.7	1.1							9.2		11.5			78.2
E	5.4	2.0						1.3	4.0	. 7	7.4			86.6
ESE	1.3	1.7	.6						3.8	1.3	2.5			91.7
SE	1.5	1.0						• 5	• 5	1.0	5.4			91.2
SSE	• 3	2.1	• 3					1.0	1.4	.7	2.4			93.5
s	• 3	1.0						• 3	• 5		2.1			95.3
ssw	•	1.7						• 5		• 5	4.1			92.6
SW		5.7					-	2.9	2.9		2.9			91.4
wsw									11.1		11.1			77.8
w	0.7	20.0						6.7						73.3
WNW	14.3	4.8		l L					4 . B					31.0
NW	£ . 3	2.1								6.3	10.4			77.1
NNW	4 - 1	.8	3.3						7.4	. 8	8.2			80.3
VARIABLE														
CALM	> <	<b>X</b>	<b>&gt;</b> ₹	$\geq \leq$	$\geq \leq$	$\geq \leq$	$\geq <$			<b>&gt;</b>	<b>&gt;</b> <	$\geq \leq$	$\geq$	ऋर
TOTAL	₽£.	50	16					16	93	21	119			2005
% TOTAL	3.5	2.1	.7					•7	3.9	• 9	5.3			86.9

TOTAL NUMBER OF OBSERVATIONS 2.403

579	TALLAS, TX	JANUARY 1973-DECEMBER 1982	SCTORES	
STATION	STATION NAME	1 € 485	MONTH	MQ. B 5 1 1 4 2 7 1

WIND	RAIN	RAIN SHOWERS	DRIZZLE	FREEZING RAIN FREEZING DRIZZLE	SLEET SHOWERS ICE CRYSTALS	SNOW GRAINS PELLETS SHOWERS	HAIL SMALL HAIL	THUNDER	FOG	ICE FOG GROUND FOG	SMOKE HAZE	BLOWING	BLOWING SAND AND DUST	NO WEATHER
2	7.0	2.6			T			1.0	4.1				• 5	89.7
NNE	4.7	4.7	7.1						10.6					83.E
NE	10.3	1.7						1.7	8.6		1.7			79.3
ENE	7.7	3.8	_					1.9	7.7					34.5
E	• 3	.9							3.7		1.8			93.6
ESE	2.4	3.1						1.6	3.9	• 6	3.1			86.6
SE	1.1	2.6	• 5					1.0	3.2		1.6			91.
SSE	1.1	1.1						•4	2.8	. 4	2.5			92.9
s	1.7	1.9	• 2					• 4	3.3	• 6	1.7			92.3
SSW	1.7	.6						1.7	3.5		• 6			93.t
sw		3.0							4 . 5		1.5			97.9
wsw	_	5.6		I .										94.4
w	5.5	3.2		I				6.5		3.2	3.2			87.1
WNW	7.5	2.5							5.0	2.5	2.5	, —		87.5
NW	1.	2.6						2.5		1.3				93.4
NNW	3.	1.5	1.5						1.5					93.4
VARIABLE					I									
CALM		<b>&gt;</b> ₩₹	$\geq \leq$				$\geq <$	>4	74.0	<b>&gt;</b> ≪	> <del>√</del>			91-0
TOTAL	5 <b>6</b>	50	10	]		]		20	97	10	35		1	2257
% TOTAL	2.7	2.0	. 4					• 5	3.9	.4	1.4		• 0	91.7

2,400 TOTAL NUMBER OF OBSERVATIONS

JANUARY 1973-DECEMBER 1987 SALLAS, TX

WIND DIRECTION	RAIN	RAIN SHOWERS	DRIZZLE	FREEZING RAIN FREEZING DRIZZLE	SLEET SHOWERS ICE CRYSTALS	SNOW GRAINS PELLETS SHOWERS	HAIL SMALL HAIL	THUNDER	₽0G	ICE FOG GROUND FOG	SMOKE HAZE	BLOWING	BLOWING SAND AND CUST	NC WEATHER
N	5 . 4	2.1	3.0			. 9			12.4		1.7		i	91.1
NNE	7.9		1.3	1.3				1.3	15.8		2.6	i		76.3
NE			5.7						14.3		5.7			85.7
ENE			15.8						21.1					78.9
Ε	8.3	3.3	6.7				_	3.3	30.0		6.7			66.7
ESE	3.7	1.2	1.2						11.1	1				A6.4
SE	3.1		3.9		<u> </u>				12.5		1.6			85.2
SSE	2 • 4	2.4	.8						7.3		. 8			88.7
S	1.4	.7	• 5					• 2	7.5	• 2	1.2			90.1
5SW	• fs	· _							2.4	• 6	• 6			96.4
sw		1.7			l				3.4					94.9
wsw	2 + 4							2 • 4	İ					97.6
w	6 . 4	10.2	1.7	L				5.1	3.4					B1.4
WNW	2.2	6.5	3.2						7.5					88.2
NW	3.4	.7	2.7			. 7			7.5		1.4			89.1
NNW	2.0	• 5	2.1		• 5	1.0			6.2		2.6			68.7
VARIABLE														
CALM	<b>&gt;</b> *<	<b>&gt;</b> ▼€	<b>&gt;</b> ▼€	$\geq \leq$	$\geq \leq$	$> \leq$	$\geq \leq$		>		>4	$\geq \leq$	$\geq \leq$	3844
TOTAL	69	34	44	1	1	5			206	2	33			2078
% TOTAL	2.7	1.4	1.8	•0	• 2	• 2		• 3	4.6	•1	1.4			87.4

2,400 TOTAL NUMBER OF OBSERVATIONS \_

	PALLAS, TX	JANUARY 1973-DECEMBER 1982	DECEMBER	
STATION	STATION NAME	· EARS	MONTH	#1 #1 1511

WIND DIRECTION	RAIN	RAIN SHOWERS	DRIZZLE	FREEZING RAIN FREEZING DRIZZLE	SLEET SHOWERS ICE CRYSTALS	SNOW GRAINS PELLETS SHOWERS	HAIL SMALL HAIL	THUNDER	FOG	ICE FOG GROUND FOG	SAT DIKE HIAZE	BLOWING SN V	BLOW NO CAND AND DV ST	N.S VIEATHER
N	2.3	2.1	3.8		. 4			.4	8.3		3.3			84.2
NNE	£ • O	4.5	3.0			1.5		1.5	11.9		6.0		1	73.1
NE	20.7		10.3						11.0		10.3			58.6
ENE	16.1	3.2	16.1						35.5		9.7			53.1
Ε	6.0	8.0	6.0						18.3		4.7	L	1	70.0
ESE	3.3	3.0	ი.ც						10.4		3 • G			77.6
SE	265		4.6						9.2		2.8			48.1
SSE	• 7	. 9	2.7	I					7.8	• 9	3.2	Ĺ	İ	48.1
s	• ^	. 9	. 9						5.1	. 4	1.8		· 	91.5
ssw		. 4	. 4						2.2		. 4		! <del></del>	97.4
SW					L				3.1			<b>4</b>	1.5	93.8
wsw		2.0												95.9
w	1.2		1.2					<u> </u>	2.4		1.2	i •	1.2	91.0
WNW	1.1	2.2	4.4		1.1			1.1	° • 6	1 • 1		İ .		58.9
NW	7.4		3.0	. 6					: • 5		1.2			91.7
NNW		• 1	5.2	1.5	.4	. 4			11.2			<u> </u>		82.3
VARIABLE													<b>-</b>	
CALM	$\geq <$	$>\!\!<$	> </td <td><math>\geq \leq</math></td> <td><math>\geq \leq</math></td> <td></td> <td><math>\geq \leq</math></td> <td></td> <td>&gt;×3</td> <td><math>\geq</math></td> <td><b>&gt;</b></td> <td></td> <td><u>.                                    </u></td> <td>79.2</td>	$\geq \leq$	$\geq \leq$		$\geq \leq$		>×3	$\geq$	<b>&gt;</b>		<u>.                                    </u>	79.2
TOTAL	4.5	27	63	5	7			4	196	7	48		2	2176
TOTAL	200	1.1	2.7	• 2	• 1	•1		•2	7.9	• 3	1.0		•1	47.8

2,475 TOTAL NUMBER OF OBSERVATIONS

PERCENTAGE FREQUENCY OF WIND DIRECTION VS. WEATHER CONDITIONS

STATION STATION NAME JANUARY 1973-7" CEMBER 1982 BLL

WIND DIRECTION	RAIN	RAIN SHOWERS	DRIZZLE	FREEZING RAIN FREEZING DRIZZLE	SLEET SHOWERS (CE CRYSTALS	SNOW GRAINS PELLETS SHOWERS	HAIL SMALL HAIL	THUNDER	FOG	ICE FOG GROUND FOG	SAMON! HAZE	BLO WING SNOW	BLOWING SANE AND DUST	N. MEATHER
N	4.5	2 • D	3.1	.6	• 2	. 7		1.4	7.4	• 1	2.4		. 5	.2.
NNE	5.7	3.8	2.7	.7	• 3	1.1		2.2	13	• 2	a			78.4
NE	• 1	2.9	3.1	• 5	.7	• 5		2.1	12.4	.7	4 . 4		1.	76.4
ENE	5.1	3.9	3.6	1.3	. 5	• 3		2.4	11.7	• 2	5.3		i	77.
E	3. 7	3.7	2.0	.6	• 2	. 3		1.7	8.3	• 2	5.1		T	81.6
ESE	₹ . 2	3.0	1.6		• 1			1.2	7.1	• 3	4.6			85.1
SE	1.5	2.3	1.6	•0				1.5	5.5	• 5	2.9			97.8
SSE	1.3	1.7	. 8		• 1			• \$	4.2	• 3	1.8			91.3
s	. 7	1.3	. 4	• 7		•€		<b>5</b> 1	3 • 1	• 2	1.6			93.5
SSW	• ,	1.3	• 2					• 9	2.7	• 1	1.1			93.6
SW	•	2.4						1.3	3.2	• 2	1.1		• 3	91.9
wsw	1.5	3.5	• 3		• 3		• 3	2.7	2.1	• 5	• 4		• 5	87.9
w	3 • 3	3.1	. 9	. 2	. 2	. 2		2.2	4.2	. 4	• 3		• 7	Rt.C
WNW	2.	3.9	1.8	• 1	• 3	. 7		1.9	6.0	. 4	• 3		• 1	67.6
NW	2.	3.3	1.9	• 3	. 4	. 6		2.3	7.5	• 5	1.1			86.4
NNW	3 • 1	1.9	2.1	. 7	. 4	. 9		• 6	7.9	• 2	2.1	• 1	• 1	36.2
VARIABLE														
CALM	<b>&gt;</b>	<b>&gt;</b>	<b>&gt;</b>	$\rightarrow$	>0	$\rightarrow$	$\geq \leq$	$\rightarrow$	>><		<del>&gt;</del> •र			
TOTAL	644	627	379	61	38	64	1	332	1707	98	673	2	12	25746
% TOTAL	2.2	2.1	1.3	•2	• 1	• 2	• 3	1.1	5.8	• 3	2.4	•0	•0	90.1

TOTAL NUMBER OF OBSERVATIONS 29,212

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#### PART B

#### PRECIPITATION, SNOWFALL & SNOW DEPTH

This portion of the Uniform Summary presents in two sets of tables, the daily amounts and extreme values of the following:

> PRECIPITATION SNOWFALL\* SNOW DEPTH

DERIVED FROM DAILY OBSERVATIONS DERIVED FROM DAILY OBSERVATIONS DERIVED FROM DAILY OBSERVATIONS

- 1. The first table for each of the above presents the percentage frequency of various daily amounts, by month and annual, all years combined. The percentage of days with measurable amounts is also computed monthly and annually. Also shown for the precipitation and snowfall tables, are the monthly mean amounts, annual mean amounts (sum of monthly mean amounts), and the extreme monthly amounts (greatest and least). The latter statistics above are not presented for the snow depth summary since they would have limited use and may be misleading.
- 2. The second set of tables for each of the above presents the extreme daily amounts by individual year and month for the entire period of record available. Also provided are the means and standard deviations for each month and annual (all months). The extremes for a month are not printed nor used in computations if one or more observations are missing.

NOTE: Snow depth was recorded and punched at various hours during the period available from U. S. operated stations. The periods and hours used in the snow depth summary vary by service and period as follows:

From beginning of record thru 1945 Snow depth at 0800 LST Air Force Stations Jan 46-May 57 Snow depth at 1230 GCT Jun 57-present Snow depth at 1200 GCT U. S. Navy and Weather From beginning of record thru Jun 52 Snow depth at 0030 GCT Bureau Stations Jul 52-May 57 Snow depth at 1230 GCT Snow depth at 1200 GCT

Jun 57-present

<sup>\*</sup> Hail was included in snowfall occurrence in the summary of the day observation prior to Jan 1956, and after Dec 1979.

**DAILY AMOUNTS** 

PERCENTAGE FREQUENCY OF PIETE TATION (FROM DAILY OBSERVATIONS)

STATION STATE

STATION NAME

YEARS

						AM	OUÑTS (II	NCHES)						PERCENT		MON	THLY AMO	UNTS
PRECIP	NONE	TRACE	.01	.0205	.0610	11. 25	26- 50	.51.1.00	1.01.2.50	2.51-5.00	5.01-10.00	10.01-20.00	OVER 20 00	00 0	TOTAL NO.		(INCHES)	
SNOWFALL	HONE	TRACE	0.1-0.4	0.5-1.4	1.5-2.4	2 5-3 4	3 5 4 4	4 5-6 4	6 5-10.4	10.5-15.4	15 5-25.4	25.5-50.4	OVER 50.4	MEASUR-	OF OBS.	MEAN	GREATEST	LEAST
SNOW. DEPTH	NONE	TRACE	1	2	3	4.6	7.12	13-24	25-36	37 - 48	49-60	61-120	OVER 120	AMTS			OREH 1201	
MAL	7.0	1 ' • 3	1.5	.4	1.4	5.0	P . 7	2.1	• 3					72.	1116	1.75	4.	•1 4
FEB		: •2	7.5	<b>₽.</b> 7	*•?	4 . 7	٧	3.€€	1.	• 1				23.	1016	2+57	5.4	•
MAR	••	1 1 . 2	2.4	3.5	•	4.4	4.	3.6	1.5	• 1	. 1			22.3	10 5	2.40	7.5%	•1•
APR	٠. • ٠	1++	~•1	4.7	1 • 2	4.7	2.6	5.4.3	3.	٥.				27.1	۵. ۱	4 <b>.</b> ] e	3.53	.7,
MAY		11.2		>.6	1.7	° • 1	ц, "	5.5	3	•8	•1			27.3	1147	4.74	2.44	•6
JUN	*	• :	ī•i	3.3	1.	3 • 3	3.1	4 . 4	2 • ·	•4				1 /	1110	2.80	8.45	•
JUL	~: <b>,</b> ¥	. • J	1 - 1	2.3	1.5	3.6	3.4	1.3	1.7	• }	• 1			1	1116	2.05	P . C.	•1
AUG	***	3.2	• "	5 <b>.</b> 2	5	3.0	2.7	2.4	1.0	• ?	• 5			15.	1147	2.31	9.03	• .
SEP	* .:	• 6	1.1	3.5	3.5	٠.:	3.6	3.9	2.3	• 5				2 .	1117	3.79	6.97	*. AC-
ост		•	1.	7.1	1.4	3.	2.	2.4	:•?	. 4				1 %	1173	3.17	5.f3	•
NOV	7.7 4.11	0.1	1.4	3 • 3	7.	3.6	7 • ?	2.3	2.7	•?	,			1	1110	2.30	3.62	• 2 1
DEC		1 4.2	1.5	3.5	2 • 2	3.7	7.4	3.2	1.2	• 2				13.5	1116	1.93	6.46	• `
ANNUAL	4.	1 .	1.6	4.0	2.2	3.7	7.4	3.4	2.1	. 3	• 3			7 • 6	1 7 3 3 1	32.78		$\times$

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## **DAILY AMOUNTS**

PERCENTAGE FREQUENCY OF THE TOTAL LEGISLATIONS (FROM DAILY OBSERVATIONS)

	4. CAS. TY	4 - ·
STATION	STATION NAME	YEARS

						AM	OUNTS (II	NCHESI		·				PERCENT		MON	HLY AMO	UNTS
PRECIP.	NONE	TRACE	.01	.0205	.0610	.1125	.2650	.51-1.00	1.01.2.50	2.51-5.00	5.01-10.00	10.01-20.00	OVER 20.00	OF DAYS	TOTAL NO.		(INCHES)	
SNOWFALL	NONE	TRACE	0.1-0.4	0.5-1.4	1.5-2.4	2.5-3 4	3 .5-4 .4	4.5-6.4	6.5-10.4	10.5-15.4	15 5-25 4	25.5-50.4	OVER 50.4	MEASUR- ABLE	OF OSS.	MEAN	GREATEST	LEAST
SNOW- DEPTH	NONE	TRACE	1	2	3	4.6	7-12	13-24	25-36	37-48	49-60	61-120	OVER 120	AMTS				
JAN	1.	•	2.	• 5	٠٠	• 4	• 1	• ?	• 1		<u> </u>		<u> </u>	•	1116	1.5	15.4	•
FEB	•	5.	• ~	• 9	• *	. 4	• 1	• 1	• 1					. ·	1 16	1.3	15.	•
MAR	/ <b>~ .</b> .	• 1	• 1	• 3	• 7								1	•	1147	• >	1.	•
APR	۰. ۵ • ۰.	•													1920	TEACT	1 - 2 C :	•
MAY	٠.	• 1													111	1 / C	roget;	•
JUN	•														-, · · · · ·	• "	•	•
JUL															111	•	•	•
AUG	• .														1147	•	•	•
SEP	•														10 0	• "	•	•
ост	•													· .	1147	•	•	•
NOV	•	1.	. 1		-			•						•	111	• 2	5.5	•
DEC		.7 • •	• '	• 2	• 3	- 1								•	1115	• ?	2.	•
ANNUAL	•	1.	• 2	• 2	• :	• 1	•	• 1,	•					•	1 7151	3.5	$\times$	$\times$

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**DAILY AMOUNTS** 

PERCENTAGE FREQUENCY OF SHIP DIFF.

STATION STATION NAME YEARS

						AM	OUคีร (I	NCHES)			_	_		PERCENT		MON	THLY AMO	DUNTS
PRECIP	NONE	TRACE	.01	.0205	.0610	.1125	26- 50	51.1 00	1.01.2.50	2 51 - 5 00	5 01-10 00	10.01-20.00	OVER 20 00		TOTAL NO.		(INCHES)	
SNOWFALL	NONE	TRACE	0.1-0.4	0.5.1.4	1.5-2.4	2 5-3 4	3 5 4 4	4 5-6 4	6 5.10 4	10 5-15 4	15 5-25 4	25 5-50 4	OVER 50.4		OF OBS.	MEAN	GREATEST	LEAST
SNOW- DEPTH	NONE	TRACE	1	2	3	4.6	7-12	13.24	25-36	37 - 48	49-60	61-120	OVER 120	AMTS				1
JAN	٠.	•	1.1	• •	• :	• •						!			1 23.			,
FEB	•		1.	•	• -	• ?		!			1	:	i	3.1	<i>f</i> .			
MAR	•	• •	• •						1	i				•	10 5			i
APR	•							:						: :	. 0		1.	
MAY													i		1 4			
JUN	· -, ·																	
JUL		,									!	:	!	i .	1525			;
AUG	•							i i				İ			10 4		!	
SEP								i				!			ا م		i	
ОСТ														• <b>•</b>	1		1	
NOV	. , -	• !		• 1	• 1							:		• :	1623		!	
DEC	• 7	1.	• 1	• =				i				!		•	1027			1
ANNUAL		•	•	. 1	•	• 1									17357		$\sim$	$\overline{\mathbf{x}}$

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#### **EXTREME VALUES**

o rejeitation

FROM DAILY OBSERVATIONS

STATION

ä.

STATION NAME

YEARS

THE WAY SHOUNT THE INCH T

MONTH	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	ост.	NOV.	DEC	ALL MONTHS
5				1. 4	u	1.55	1.62	. 4.5	· E C	1.75	1.32	•	
<u> </u>	.4	1.37		1.2	0.00	• 3 = 1	.75	3.0		1.12	3.57	1.55	
	• 2.7	, r.	. 7	.4"	• 5 3		•C:	≎0	1.5	2.04	1.70	1.	
			• 3 1		1.41	1.15			. 4	.51	. 41	2.74	
1		2.2			5.00	1.53	• 32	.17	•10	2.42	. ? 5	•2'	
	-1	2.31	1.4	1.11	2. 2	1.53	1.1	2.45	2.86	• 3 1	. 75	•	7. €
: [	1.37	• ^6	1.40	• 5 5	9.5	- 3 • 5 €	• <b>4</b> 2	• 1	• 7.5	1. 4	• :	• *	•
	.65	- 5.3	1.0	2.1	2.85	• 12	. 4 3		• 2 %	•11	2.47	1.1	2.55
'	• 4 1	• 3 ?	1 ****	2.13	1.2	• 50	.77	• v 🗓	1 • 3/	1.7	• 06	• 7 "	7.13
	1	• * 3	. 4 *	1.7	2.12	1.44	• ] 4	1.2	1.53	1.52	1 • 2 6	• 7	1.1
5,	* 1. B	• ? 7	•6	7.04	2.05	1.73	1.61	2 • 03	• 0 •	• 1 1	• 2		
	-07		. 50	1.6"	3.74	• 5.5	•17	• : 2	• 60	• 5 3	2.10	1.21	7.00
	• * 3	• 34	1.9	4	4.13	• 5	• 11	•	1.11	1.4	1.00	• 7 -	4. t
<del>                                     </del>		• : -	- 7	3.44	1.	• 7	7,49	• E 4	. 7		1.34	• 5 •	7.4.
	• J"	1.17	1.31	•67	2.41	1.39	• 31	• 1	• F B	4.23	•	1.47	4.75
· ; •	1.3	• '7	4 3	• 7	-6.7	3	.57	2.19	1.57	1.35	a ++ **	1.	• 1
1	1 • 1		2.00 94	1.1	• 5 4 • 7	1.47	.4-	•34	1.6	¥ • . 7	1.4	• 1	•
	• •	•	- 1	3.25	1.18	1.1	1.67	2.27	1.31	1.27	1.15	• •	
1			1.2	3.27	.99	.00	1.44	.10 1.19	1.95	• ,	.67 2.63	1.1.	
	5.7	1.74	7 !	• 71	4. 3	70	• • • •	1017	1.7	.11	1.70	• 4 1	
5		2.70	_ 1.70	2.1	51	1.45	94	- 1		1.54		. 7	4. 3
<del></del>	. 1 1		- • • •	1.17	1.14	1.	1.30		1.45	1.24	• 4.7	• 5 1	1.4
	3,1		1.53	41	1.21	1	1. 4	3.12	1.3	44	1.74	• 7	7.1
,	1.25	• -6	.77	1.7-	4.11	2.5		73	• • •	3.19	2.3		3.1
l l	. 4 (4	1.45	6.5	1.71	. 9.5	.01	. 3	1.77	2.	2.7	.31	, ,	
:	.2.	• 5 5	. 2.	1.51	1.57	5.5	1.53	1.14	.41	2.17		2.62	
l	. 3 7		_ 11	2.5	8 %	95	1. 3	154	1.01	1. 7			
	1.17	1. 0	1.27	.77	•61	4.30	1.04	-15	3.14	2.22	.67	• 11	4.7
			. 2 '	1077	4.7	2.33	7.	1.12	10/2	2		. 7	-
MEAN													
S. D.	I												
TOTAL OBS.	I											<b>†</b>	

#### **EXTREME VALUES**

PTECIPITATION (FROM DAILY OBSERVATIONS)

14: E45. TX STATION

YEARS

PH HOME AMOUNTS IN INCHES ZRAIGB ON LEGS THRE FULL MONTHS?

MONTH	JAN.	FE8.	MAR.	APR.	MAY	JUN,	JUL.	AUG.	SEP.	ост.	NOV.	DEC.	ALL MONTHS
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MEAN						<b>-</b>	-						<del> </del>
S.D.						<b> </b>							<del>                                     </del>
TOTAL OBS.						<u> </u>							1

#### **EXTREME VALUES**

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STATION NAME

YEARS

TO THE STANDARD TO THE ENGINEER

MONTH	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	ALL MONTHS
	1 - 4 3	2.17	.95	2.41		• •0	5.68	•13	• ; 7	•71	• 2 •	1.44	
5	• ! '	• 9.5	.79	3.26	1.82	• 76		• 6 =	3.04	1.39		.7*	
7	, 4	1.23	5.16	1.7"	.34	•23	1.20	5.63	1.37	2•09	• 61	•1:	F . C
7-	• * 2	1.48	1.73	• •	1.17	.55	• 3 7	1.5	• 9 7	.47	. 26	1.27	1.:0
	]	• 52	2.61	1.40	4.21	• 56	• 8 1	1.20	1.14	93	• 14	1.47	4.1
<b></b>	1.33	- 30	. 87	.97	.99	- 41	.43	• 26	4.57	1.27	• 9 (	•14	
	23	. 42	9 3	.79	2.01	1.77	1.56	.74	1.45	2.26	• 72	-	2.26
<del>                                     </del>	1.62	1.17	• 5. 5	•75	1.71	• 41	2.25	• 21	.53	. 04	1.73	• • ;	2.25
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MEAN	.7	, t · c	1.1	1.55	1.0	1.12	1.07	1.30	1.47	1.40	1.04	- 6	3,52
S D.	• 1	145	-910	.055	1.497	913			999	976	750		1.006
TOTAL OBS.	1115	1715	1 8	1000		111	1116	1147	1110	1178	1110		17331

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# NAVAL WEATHER SERVICE DETACHMENT ASHEVILLE, NORTH CAROLINA

## **EXTREME VALUES**

SNO FALL

FROM DAILY OBSERVATIONS

STATION

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YEARS

24 HOUT AMOUNTS IN INCHES

MONTH	JAN.	FEB.	MAR.	APR.	MAY	JUN,	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	ALL MONTHS
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	<u>• 1</u>		• "	<u>•?</u> [				•3	• ^	• ^	• 1	• `	•
: 1	1.4	7.7	• ~	• 1	• 1	• ^	• ^	• 0	• •	• 3	• ີ	• "	
			• 1	<u>•</u> [	•		7.	• 3	• ^	• `	٠		
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		1.7		•	• 4		•	• 0	-			1.	
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MEAN													
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TOTAL OBS.	l												L

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#### **EXTREME VALUES**

SN FALL
IFROM DAILY OBSERVATIONS

STATION

TALLAS. TY STATION NAME

VEARS

24 HOUS AMOUNTS IN INCHES

MONTH	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	ост.	NOV.	DEC	ALL MONTHS
" E,	• `	€ . °	•	• ^	• ^		• 0	.n	•	• 7	, ,	•	
7	4.4 5.0	3.7	• 1	-n	• 1	• 3	. n	•S	• î	•0 •	• 7	1.	4.4
7 3	1.5	7.1 7.0	• 1	, ,		•0 •0	•n	.0	•	•	•	•	- • 1
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S.D.	2.14	1.735		• 700	.700	.000	• 100	•^730	.000	• 00	^ D4	•55	2.472
TOTAL OBS.	111	1914	1147	1"27	1116	1 7 9 3	1116	1147	1 57	1147	11	1116	1 21 21

#### **EXTREME VALUES**

FROM DAILY OBSERVATIONS

STATION

STATION NAME

VEARS

24 HOW AMOUNTS IN INCHES VRATED ON LESS THAT FUEL MONTHS/

MONTH	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	ост.	NOV.	DEC.	ALL MONTHS
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71 .								21	- 3				P.NAPPEL
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S. D. TOTAL OBS.							-						

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#### **EXTREME VALUES**

SNO. DEPT 4

STATION

STATION NAME

YEARS

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MONTH	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	ост.	NOV.	DEC.	ALL MONTHS
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TOTAL OBS.													·

#### **EXTREME VALUES**

FROM DAILY OBSERVATIONS

STATION

STATION NAME

YEARS

TATEL INDA DEPTH IN INCHES AND FOLL MONTHS?

7 --

MONTH	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	ост.	NOV.	DEC.	ALL MONTHS
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S.D													1
TOTAL OBS.													<u> </u>

# **DAILY EXTREME AMOUNTS**

STATION

TALLAS, TE

STATION NAME

1 46-1982

YEARS

A PAGE AT HAND

FET THATY MONTH

	EIPITATION	DATE 1972 1065 1067 1067 1061 1061 1061 1074 1078 1078 1078 1078 1078	GR INCHES	OWFALL REATEST MM T T T T T T T T T T T T T T T T T	DATE 1 779 1 778 1 774 1 772 1 779 1 177 1 173 1 168 1 962 2 2 779 1 182 1 182
• 1 • 5 • 5 • 6 • 7 • 6 • 7 • 6 • 7 • 6 • 7 • 6 • 7 • 7	13 17 7 10 10 12 22 25 13 27 35	1972 1965 1967 1961 1961 1961 1946 1973 1973 1978 1978 1958	7.4 7.4 1.7 2.7 1.5 7.	7 7 7 7 7 7 7 7 7 7 8 8 9 7 8 7 7	1 79 1 78 1 74 1 77 1 77 1 79 1 73 1 63 1 962 1 77 1 1 82
• 1 • 3 • 3 • 3 • 0 • 1 • 1 • 2 • 3 • 3 • 3 • 3 • 3 • 3 • 3 • 3 • 3 • 3	13 17 7 2 2 2 2 2 2 2 3 3 3 3 3 3 3 3 3 3 3	1065 1957 1967 1961 1961 1961 1946 1974 1978 1978 1951 1946	1 · 3 2 · 7 1 · 5 3 · .	7 7 7 7 7 7 7 7 33 60 38 76	1979 1974 1972 1979 1979 1973 1962 1979 1974 1982
• 3 · 3 · 6 · 3 · 6 · 7 · 6 ·	17 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	1957 1957 1961 1961 1961 1945 1955 1974 1978 1958 1951	1 · 3 2 · 7 1 · 5 3 · .	10 7 7 7 7 33 69 38 76	1 74 1 272 1 273 1 273 1 63 1 962 1 279 1 574 1 1 8 2
- 3 - 3 - 3 - 3 - 3 - 3 - 3 - 3 - 3 - 3	2 2 2 2 2 3 5 1 3 5 9 1 3 3 5 9 1 3 3 5 9 1 3 3 5 9 1 3 3 5 9 1 3 3 5 9 1 3 5	1957 1961 1961 1961 1945 1945 1955 1974 1973 1958 1951 1946	1 · 3 2 · 7 1 · 5 3 · .	10 T T 33 69 38 76 5	1972 1979 1979 1973 1963 1962 1979 1973 1982
• 3 • 5 • 6 • 7 • 6 • 7 • 6 • 7 • 6 • 7 • 6 • 7 • 6 • 7 • 6 • 7 • 6 • 7 • 6 • 7 • 6 • 7 • 6 • 7 • 6 • 7 • 6 • 7 • 6 • 7 • 6 • 7 • 6 • 7 • 7	12 22 25 13 27 35 9	1767 1761 1761 1761 1745 1755 1774 1773 1758 1751 1746	1 · 3 2 · 7 1 · 5 3 · .	7 7 7 33 60 38 76 5	1979 1979 1963 1962 1979 1978 1982
• 1 • 1 • 1 • 1 • 1 • 1 • 1 • 1 • 1 • 1	8 12 22 25 13 27 35	1961 1961 1946 1955 1974 1973 1958 1951 1946 1954	1 • ? 2 • 7 1 • 5 7 • .	7 33 60 38 76 5	1:79: 1:73 1:63 1:962 1:97: 1:82: 1:82:
• 1 • 4 • 2 • 2 • 3 • 3 • 3 • 3 • 3 • 3 • 3 • 3 • 3 • 3	12 22 25 13 27 35	1961 1946 1955 1974 1973 1958 1951 1946 1954	1 • ? 2 • 7 1 • 5 7 • .	7 53 60 38 76 5	1973 1968 1962 1979 1973 1982
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7	25 13 27 35 9	1074 1773 1758 1751 1746 1754	1.5	38 76 5	1979 1973 1982 1982
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• ? .	35 0	1951 1946 1954		7	1382
• 1	13	1946			
• 1	13	1954	3.11	1.0	126:
7.5			3	1.4	1 26
• 7	4.0		] - 4	13	1.04
	2.5	1064	13.0	254	1764
•1	4	1755	7.4	12	: 766
• 3	23	1756	5	127	1955
• * 1)	20	1770	3.1	76	1900
• 10	15	1948	· · ·	7	1 270
• 3	34	1082	5.	127	1972
• 5 3	21	108~	5.2	5	1766
• 1	15	1053	*	7	1 79
• 4 c	113	1049	1.9	45	1040
.17	30	1273	0.1	3	1378
• 30	В	1948	1	+	1963
• 0	10	1949	3.2	5	1761
•1	18	1068	7.0	51	1948
.2	31	1989	1.3	33	1 31
• <del>• • • •</del>	41	1082	4.4	112	1977
	55	104-		41	1751
		1047			1764
	• 1 7 • 1 7 • 1 7 • 1 7 • 1 7 • 1 7 • 1 7 • 1 7	.1 10 .4 113 .17 36 .73 8 .60 10 .11 18 .24 31 .62 41	-1 10 1053 -1 10 1053 -4 113 1049 -1 30 1073 -1 30 1073 -1 10 1049 -1 10 1049 -1 10 1049 -1 10 1069 -2 31 1069 -7 41 1062 -1 55 1057	-1 10 1953	-1 10 1053

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DAY		PRECIPITATION GREATEST			SNOWFALL GREATEST			
J DAT	INCHES	MM	DATE	INCHES	MM	DATE		
1	2.31	5.9	1000					
2	1. <u>2</u> 3	6	1977	೧.೯	2.3	1 56		
3	7.77	20	10600	7.4	1.7	1956		
4	1.77	35	1946	7	Ť	1781		
5	7 • 2	21	1561	- 6	15	1361		
6	0.12	16	1361	3 . 2	- 1	1251		
7	1.00	27	1973	3.5	37	147R		
8	1 • • 1	41	1065	3.4	16	1978		
9	2.72	60	1966	3 • €	76	1987		
10	0.33	R	1953	· · ·		1 - 6 1		
11	1.25	33	1077	1.0	25	1758		
12	1.49	38	1979	0.3		195R		
13	0.70	18	1946	0.3	7	1951		
14	1.0	3.8	1950	3.2	1	1251		
15	2.71	1 *	1952	2.7	6.9	1978		
16	0.65	17	1965	1.2	30	1787		
17	1.10	2.3	1973	3.7	221	1778		
18	0.34	7	1957					
19	0.59	15	1955	2 • 1	53	1 259		
20	0.38	10	1321	2.1	3	1 64		
21	ე.∘ე	23	1774		•	1271		
22	0.35	r.	1973	1.0	75	1 55		
23	2.27	5.8	1940	5.0	127	1075		
24	1.45	37	1973	1.5	38	1967		
25	1.17	30	1065		•	1:85		
26	0.3	13	1966	0.5	13	1982		
27	28.0	13	197"					
28	0.⇒3	13	1068		•	12710		
29	3.14	4	1960					
30								
31								
Monthly	2.72	69	1966	8.7	221	1 /79		

\* ALSO ON EARLIER YEARS
T — TRACE, AN AMOUNT TOO SMALL TO MEASURE
BLANK UNDER SNOWFALL INDICATES NO SNOWFALL FOR PERIOD OF RECORD

# **DAILY EXTREME AMOUNTS**

ALLAS. TY

STATION NAME

YEARS

44°C+

		_	MOI	нтн		
		CIPITATIO	ON		OWFALL	
DAY	INCHES	ММ	DATE	INCHES	MM	DATE
1	7.1	71	13-3	1	*	1 : 9 ~
2	- 7	70	1077	1.0	25	1771
3	.2	31	1377	1	*	1578
4	• 6	13	1038	1	1	1 54
5	•	14	1050	• 3	20	1554
6	-3	7	1957			i -
7	.7	? ~	1776	1.0	4:	1 47
8	7	32	1064			
9	1	47	195*	•	1	1 -6.4
10	1.71	33	1:55		1	1 /4 3
11	10-3	- 30	1000	<del> 1</del>	7	1:2
12	1	76	105		1	: "7"
13	• 1	2.3	1:46		Ť	1 76
14	1 . 1	11	176"	1.4	46	1 67
15	1	7.1	1570	<del> </del>		
16	1 1	51	1961	1	7	3 7
17	. 6	17	1960	<del> </del>		
18	-	13	1747	<del>                                     </del>		
19	1.02	71	1979		+	1-65
20	1.4	37	1268	<del>   </del>	- f	1.7
21	<del>                                     </del>	16	1249	.7	13	197
22	• 6	17	1958	+ + +	<del>- i</del>	1768
	1:-3	76	1778	<del>                                     </del>		<del>' ' '</del>
23 24		20	1775	<del>├</del> ── <del></del>		<del> </del>
		18	1946	<del>   </del>	+	1060
25 26	7.56	24	1975	<del>                                     </del>		<del>  ` `</del>
	•16	131	1277	<del> </del>		
27	2	44	1766	<del>                                     </del>		<del> </del>
28	1 1 2 2 2	122	1945	<del>  </del>	Ŧ	1.7
29	<del>                                     </del>	56	1979	<del> </del>		<del>  ^                                   </del>
30	1.0	90	1957	<del>                                     </del>		<del> </del>
31		131	1277	<del>                                     </del>	h. 4	-
Monthly	•16	1 21	1 / / /	1.0	46	1 62

				NIH		
DAY		ECIPITATI GREATEST			NOWFALI REATEST	
DAY	INCHES	MM	DATE	INCHES	MM	DATE
1	7.7	23	1 545			
2	7.75	10	1942	7	7	11.2
3	1.	36	2057			
4	7.4	24	1962			I
5	ી•દ	17	1014			
6	0.2	6	1 75			
7	2.1	61	1075			
8	∩• 0	30	1050			
9	1.54	26	1255			
10	7.7	27	176?			
11	1.54	30	1954			1
12	7.74	21	1624	1	. †	1 2 7
13	1.04	27	1954			
14	0.2	23	1.77			
15	1.34	34	1977			
16	7. 8	?2	1050			
17	1.1	39	1971			
18	1.4	42	1976			
19	3.26	83	1076	7	,	: : ?
20	1.78	4.5	1377			
21	2.10	61	1957			
22	2. 1	64	1952			
23	-13	54	1953			
24	1.2	3.3	1 57			
25	2.14	54	1965	1		
26	4 .: 6	118	1957			
27	3.D6	53	1972			
28	2.25	83	1963	<del>                                     </del>		
29	1.40	36	1956			
30	1.77	45	1754			
31						
Monthly	4.6	113	1957	<del>  -  </del>		1 52

\* ALSO ON EARLIER YEARS

T = 15ACE, AN AMOUNT TOO SMALL TO MEASURE BLANK UNDER SNOWFALL INDICATES NO SNOWFALL FOR PERIOD OF RECORD

# **DAILY EXTREME AMOUNTS**

CALLIS, T.

STATION STATION NAME 1 45-19-2

YEARS

	_		MOI	NTH		
547		CIPITATIO GREATEST			IOWFALL REATEST	
DAY	INCHES	мм	DATE	INCHES	ММ	DATE
1	7.74	76	1954			
2	1.17	33	1078			
3	•21	1.07	1979			
4	.13	3	1.69	T T		
5	10.71	121	1274			
6	• 1 1	104	1769			
7	^• •	21	1575			
8	•51	51	1281			
9	7.74	2.5	1951		Ť	1.081
10	1.03	102	1965	1		
11	1	36	1048			ļ
12	*•34	5.3	1957			
13	, • 5.0	30	1.68			
14	1.0	39	1074			
15	1.	47	1955			
16	4	37	1955			
17	• " 4	151	1949			†
18	3.00	74	7565			
19	7.07	5.2	1935			1
20	1.21	32	1755			
21	10.77	2.2	1273			
22	6.6	17	1945			
23	-13	105	1257			1
24	1-1	43	1285	† †		<u> </u>
25	1.2	32	1383	1		1
26	1.7	32	1992	-	Ŧ	1.182
27	1.57	40	1981			T
28	1.50	75	1278	<del></del>		
29	מיים	127	1946	<u> </u>		<del>                                     </del>
30	• : 2	46	1976	<del>                                     </del>		<del>                                     </del>
31	1.17	30	1346	tt		t
Monthly		151	1949	<del>                                     </del>		10000

			МО	NTH		
5.41/		CIPITATI			NOWFALE REATEST	
DAY	INCHES	ММ	DATE	INCHES	ММ	DATE
1	1.67	42	1981			
2	2. 7	76	1991			
3	4.32	111	1977			
4	1.25	33	1055			
5	1.72	44	1981			
6	. 5	23	1950		•	
7	7.33	65	1974			
8	1.73	44	1055			<u> </u>
9	1.1	36	1974			-
10	r.34	3	1975	1		
11	1.15	<u> </u>	1345			<del>                                     </del>
12	1. 5	47	1945	ft	<del></del>	
13	1. 7	27	1945			t
14	n. 8	25	1951			<u> </u>
15	14	37	1054			<del>                                     </del>
16	2.65	6.8	1951		-	<del> </del>
17	1.0	7.8	1961	<b></b>		<del> </del>
18	1.15	29	1955			<del> </del>
19	1.	4 -	1947			<u> </u>
20	2.1	5 2	1947	-		<del> </del>
21	1. 3	41	175			<del> </del>
22	1.30	35	1959			<del>                                     </del>
23	7,7	2.5	1016			<del>                                     </del>
	- 1	23	1768			<del>                                     </del>
24	1. 3	39	1940			<del> </del>
25 26	1.1	2	1946			<del> </del>
	201	1	1942	<b>-</b>		<del>                                     </del>
27 28	) . 7	22	1940	<del></del>		<del> </del>
28	1. 1	27	104	<del></del>		<del> </del>
30	1.14	3	1767	<del>                                     </del>		<del> </del>
	<del> </del> +			<del>  </del>		┼──
31	4.24	111	1977	<del>├</del> ──┼		<del> </del>
Monthly		4 1 4	# V ( )			i

\* ALSO ON EARLIER YEARS
T -- TRACE, AN AMOUNT TOO SMALL TO MEASURE
BLANK UNDER SNOWFALL INDICATES NO SNOWFALL FOR PERIOD OF RECORD

# **DAILY EXTREME AMOUNTS**

TALLAS. TY

STATION NAME

1 45-1092

JULY

8 1 3<u>8 T</u> MONTH

	800	CIDITATI	ON		IOWE A L	
DAY		CIPITATION			NOWFALL REATEST	
DAY	INCHES	мм	DATE	INCHES	ММ	DATE
1	1 . 2	34	1967			
2	7.54	34	1949			I
3	7.0	15	1531			
4	• 2	41	1045			T
6	- 4	8.9	1028			
6		14	1058			
7	2.5	57	1685			I
8	1.4	12	1966			
9	7	7	10776			
10	7.69	23	1745			
11	10.4	47	1973			
12	1.00	76	1077			
13	1.3	34	1967			
14	1 0 1 40	37	1963			
15	^.4	11	1955			
16	1 • 1	41	1755			
17	7.	24	1966			
18	7.77	כי:	1753			
19	7.57	14	1960			
20	. 44	12	1964			İ
21	7.43	11	1987			
22	7.4	11	1961			1
23	7.57	14	1071			ĺ
24	1.47	37	1975			
25	5.6	144	1075			
26	1.55	39	1967			
27	1.67	42	1962			1
28	1. 2	44	1073			
29	7.32	21	1075			
30	7.5.	14	1782		÷	
31	2.5:	2.4	1047			1
onthly	7.6	144	1775			1

	MONTH					
DAY	PRECIPITAT GREATES			SNOWFALL GREATEST		
DAY	INCHES	ММ	DATE	INCHES	MM	DATE
1	[ ^•`: <u>[</u>		1977	I I	_	
2	2.27	5 3	1962	ĺ		
3	~ ~ ~ 1	1 2	1979			
4	7.73	19	1060			
5	1.53	3.8	1975			
6	`•`3	19	1974			
<del></del>	.24	7	106 €			
8	0.11	3	1974			i
9	^. / €	10	1972			
10	1.12	27	1974			1
11	2. 1	53	1955			
12	10.72	21	1053			
13	*.12	7.4	1968			
14	1.14	2 ^	1971	- 1	_	
15	1.14	3.0	1764		_	
16	13.6	1	1751			
17	79	25	1764	<b>i</b> i		
18	• 1	21	1351	<b></b>		
19	1.27	32	1977			
20	₹.	150	1277			
21	2.19	56	106	† <u>†</u>		
22	1.47	4 //	195-			
23	7.44	24	197	i i		
24	1.15	29	1966		- **	
25	~.94	24	1971	T 1		
26	1.67	43	1968			
27	٤. ۵	2 7 3	1947			
28	1.0	76	1996			-
29	2.43	63	125			
30	7.54	17	1974			
31	• 0	23	1275			<u> </u>
Monthly	· 0	203	1947			

<sup>\*</sup> ALSO ON EARLIER YEARS

T - TRACE, AN AMOUNT TOO SMALL TO MEASURE BLANK UNDER SNOWFALL INDICATES NO SNOWFALL FOR PERIOD OF RECORD

# **DAILY EXTREME AMOUNTS**

.90; STATION

G.

TAREAS. To

STATION NAME

1 45-1962

YEARS

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no tope: MONTH

DAY		CIPITATIO			OWFALL REATEST	
UAI	INCHES	ММ	DATE	INCHES	мм	DATE
1		79	1976			T
2	• " 3	25	124.			
3	1.7	35	1953			
4	1 • " 3	39	135			
5	•	21	1973			
6	• 5	4.,	1373			I
7	. 2	46	1962			
8	1.1	2.5	1949			T
9	.6	1.9	108,			
10	• 1	5	1974			
11	1 • 4	37	1947			
12	•	4.1	1761			L
13	• 31	7	197			
14	1 . 4		1967			
15	• -	23	1767			
16	• ' 2	41	1 7			
17	• •	_ 38	1974			
18	•	2.0	1045			
19	7.7	71	1958			
20	1 . 2	40	1974			
21	7.7	76	1965			
22	• 1	•	1769			
23	• 17 ₹	51	137-			
24	1 • 2	41	1267			
25_	• 50	15	1755			L
26	7.1.	8.3	1971			
27	: ع.	23	1764			L
28	• 8	?2	1260			
29	4 . 5	116	198.			
30		46	1754			
31						I
onth!y	4.57	116	1050			

				NTH		
DAY		ECIPITATIO GREATEST			NOWFALE GREATEST	
DAT	INCHES	ММ	DATE	INCHES	MM	DATE
1	4 . 72	197	1253			
2	7.02	77	1501			
3	7 . 2	7.2	1971			
4	2.15	6.5	150			
5	0.47	12	1070			
6	9. 2	1.3	1761			
7	2.21	57	1981			
8	7.04	52	1947			
9	1.1	2 0	1961	L		
10	2.01	5 3	1977			
11	7.23	57	1973			
12	3.1.	A ]	1960			
13	1.5	5.0	1367			
14	1.7"	45	1074			
15	1.2	7.3	1767			
16	3 • 3 1	Ç	1046			
17	1.25	3.0	1:37			
18	1. 7	5.0	1971			
19	7 . 3	6.2	1971			
20	0.01		1-71			<u> </u>
21	1.3	46	1777			
22	1.14	2 -	1077			
23	1.1	30	136 5			
.24	2. 2	51	1240			
25	. 0	43	126.5			
26	1.9	51	1772			1
27	0.5	22	1363			
28	1.27	33	1:62			
29	1.77	35	1076			
30	1.7	44	1973			
31	7.77	5.0	1974			
Monthly	4.22	1^7	1950			

<sup>\*</sup> ALSO ON EARLIER YEARS

T - TRACE, AN AMOUNT TOO SMALL TO MEASURE BLANK UNDER SNOWFALL INDICATES NO SNOWFALL FOR PERIOD OF RECORD

# **DAILY EXTREME AMOUNTS**

STATION

ALLIS, TE

STATION NAME

1145-1982

YEARS

 $\psi \in \mathcal{J}_{\Gamma}(\sigma_{\Gamma_i} \Gamma_i)$ 

MONTH

ú.	CE 435
	MONTH

		CIPITATIO GREATEST			NOWFALL REATEST	
DAY	INCHES	мм	DATE	INCHES	мм	DATE
1	• 7 1	7.4	1046			
2	7.57	÷ 1	1046		7	1771
3	7.76	7	1045			
4	1.1	5.3	125€			l
5	1 • 3 3	٠ د	1757			
6	• 1	1	15729			
7	• 12	15	1062			
8	• 1	21	1777			1 69
9	1.2	34	1045			
10	•	74	1074	7 • 1	<u>`</u>	1 7
11	- 3		1340			
12		11	1272			
13	•	4 3	1 ~ 4 7	5	14	1 7
14	1 . 24	34	1328	L	Y	! 7
15	• i	7:	1776			
16	•	2.3	1 0 5			
17		5.2	1957	11		<u> </u>
18	<u> </u>	7 7	3000			L
19	•	24	1753			
20	<u>•</u>	. 7	1073	<u> </u>		<u> </u>
21	• 71		1761		<u>†</u>	7.2
22	1.	- 2	1701		<u> </u>	1 771
23	1.	47	1952			
24	•	- 3	1952		1	1757
25	1.1	3 3	1057			<b>!</b>
26	1.	44	1282		1	1 8
27	<u> </u>	- 1	1053			L
28	• •	17	1067		<u>T</u>	1 70
29	• 3		1377			1774
30	•	15	1063		<u></u>	1 55
31		[				
Monthly	• • •	- 1	1 7 4 4	5.5	140	1 76

				NIH		
200		ECIPITATION CONTRACTOR			NOWFALL REATEST	
DAY	INCHES	ММ	DATE	INCHES	MM	DATE
1	~ • •	12	1000			
2	೧.∀೨	23	וַינוּ	1		
3	0.1	1 3	1747	-	Ť	177
4	5.04	1	1 25 1			
5	0.7	25	1271	•	•	1
6	1. 2	46	1 16.7		•	
7	1.27	31	1760			
8	1.7.	45	1080			
9	7. 2	7.7	1971			
10	1. 0	* 3	1045	• 1	5	1 7.7
11	1.3	34	1947	1	•	
12	7	25	1777	7.1	3	1 : 3
13	0.1	3	1.61	•	•	13-7
14	? • 6	7 ]	1000		•	115
15	1 • • 2	36	1263			
16	0.3	·	1961			
17	3.21	7	1356			
18	1.21	31	1954	•		1 . 4
19	?	25	1956	'		1 -
20	7.7	25	1465		•	1 - ?
21	0.34		1073	,	•	
22	3.30		106.	7.3		1 7
23	1.4	3.7	1979			
24	14	37	1375	7	•	3 75
25	0.4	12	1363		7	1975
26	₹,71	2.0	1000			
27	21	10	10,5	7	*	1 67
28	0.57	17	1363	1.1	<u> </u>	1 54
29	2.17	20	1060	•		1 43
30	5.46	24	1052	1.	- 9	1750
31	1.27	3.2	1978	7.5	'1	1746
Monthly	7. 2	7.	1971	2.	1	1 -44

\* ALSO ON EARLIER YEARS
T - TRACE, AN AMOUNT TOO SMALL TO MEASURE
BLANK UNDER SNOWFALL INDICATES NO SNOWFALL FOR PERIOD OF RECORD

NOCD, Federal Building Asheville, N. C.

#### PART C

#### SURFACE WINDS

Presented in this part are various tabulations of surface winds as follows:

1. Extreme Values - Peak Gusts: Derived from daily observations and presented by individual year and month for the entire period of record available. Speeds are presented in knots, while directions are given in 16 compass points from the beginning of record through 1963, and in tens of degrees starting in January 1964. When 90% or more of the daily observations of peak gust wind data are available for a month, the extreme is selected and printed. These values are then used to compute means and standard deviations for the entire period. Every month of a year must have valid observations present before the ALL MONTHS value is selected for that year. Means and standard deviations are computed when four or more values are present for any column. A supplementary list of Peak Gusts by year-month with < 90% observations reported is also provided.

NOTE: According to Circular N specifications, "peak gust data are recorded only at stations with continuous instantaneous wind-speed recorders."

2. Bivariate percentage frequency tabulations: Derived from hourly observations, these tabulations are a percentage frequency of wind directions to 16 compass points and calm by wind speeds (knots) in increments of Beaufort classifications. Percentages are shown by both direction and speed, and in addition the mean wind speed for each direction.

A separate category is provided on the form for variable winds, which are reported in some data sources. In these data where light and variable winds are reported with no directions but with speeds given, the speeds will be summarized in the appropriate groups opposite the column headed VARBL.

- a. Three tables are prepared for all surface winds included, and for all years combined as follows:
  - (1) Annual all hours combined
  - (2) By month all hours combined
  - (3) By month by standard 3-hour groups
- b. A separate annual table is also presented for surface winds meeting the following ceiling and visibility conditions: INSTRUMENT CLASS: Ceiling 200 through 1400 feet inclusive with visibility equal to or greater than 1/2 mile, and/or visibility 1/2 through 2-1/2 miles inclusive with ceiling equal to or greater than 200 feet.

# **EXTREME VALUES**

SNU DEPT-(FROM DAILY OBSERVATIONS)

STATION NAME

TNOW BERTH IN THEME.

MONTH	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	ост.	NO√.	DEC.	ALL MONTHS
5		4.	-			5 3	· ·	5	,	^	3		
7		-	-			1		1. 7					•
7				-				-		3	-		
:			,		<del></del>			7		- 2	· · · · · · ·		
						•	•		<u> </u>				, , , , , , , , , , , , , , , , , , , ,
				1									
					l								
						_							
		-											
	<del></del>												
MEAN	1.1	• "	• :	•	•	• 1	•	• -	•	• 5	• 1	•	1
S. D.	1 4 "				• 101								12357
<del></del>		•7 1•133		• 101		•: •:00 1720	7.00	•700 1754	an	.0 .060 10-5		•! •"!• 172"	<u> </u>

#### **EXTREME VALUES**

SHOP ACC HE MES

STATION

STATION NAME

YEARS

TAL G ST IN KNOTS

MONTH.	JAK	٧.	FE	В.	м	AR.	AP	R.	M	AY	J	UN.		UL.	A	JG.	SE	P.	О	CT.	N	DV.	-	EC.	AL MON	L THS
					Γ	•		- 1	1	1.7	F	54	-	44	SE	7		47		٠, ١		4-	W	3		
	Ï	· •	<u> </u>	4	1.	-, -	<u> </u>	4/	<u> </u>	6	l		<u> </u>	4 '	r .	. 3	L			7.	4 C 3	4.7	•	3		
,			1					47		4 ?		4	· F	?1	554		\$5:	33	1	7	Г					
			ļ					-	<u></u>		<u> </u>	4.7	<u> </u>	47	<u>ξ (ξ</u>	- : 3	<u> </u>	٦1	<u> </u>	7	<u> </u>	5	\$	4.7		
		2.6			[		7.7		ir n	- ج	1 .	<b>→</b> ^	•	4.0	SX		\$ iu	4.**	N	· · · · · · ·	3.	34	\$ \$ 🐷	.,		
	٠	4	n ' . N	<u> </u>	1	4 -	150	¥ 2		71		4 %	<del>-</del>	3.5	1.0		<u> </u>	٠,	1	3.1	L					
1	ļ	75		• 1		٠ بيا	ľ	40	j	40	3.	56	100	4 4	1	(3	15	6 L	55-	, 5	l n	**		4.7		
	ļ			_ :		* 1	<u></u>	4	<u> </u>	5,7	Γ.	3 -	<u> </u>	37	L.,	35	<u> </u>	:0	NA.	4.3	153	25	<u> </u>	4 ~		
				- 7	F	•		4 :	ţ.	7	r	35	F -	7.6	<b>,</b>	• :	1	4.3	8.4	. 3	<b>ए</b> ड प्र	7.7	125	34		
· · ·		;			- 4	4	h 14	44		7.3	<u> </u>	47	<u> </u>	4.2	S N	56	<u>, r</u>	4	ļ	4	∳-¥	4.7	∳i+.	u '	٠.	E .
			e Pac	``	5	4.	ŀ	nŧ	1.	3 ^	5	7 >	1	4.3	7.5€	3.7	F	30		15	F	Q.				
			\{	• •		4	<u> </u>	48	<u> </u>	· ·	1_	37	12	46	1 4	1.2	. Ni	2.7		1, 22	۶ς.	٠, ٠	<u> </u>	3 -		_
			<b>)</b>	71	۶,	u '			ľ	•	1			4.5	\*!. <sup>-</sup>	7.2	h .	4	Sa	3.7	<b>\$</b> , ∓	7.				
	-		<u>;                                    </u>		<u>5</u> (*	ч.	<u>.                                    </u>	Ęن	<u> </u>	٠, ٦		7	<del>-</del>		5 S W	' د	<u> </u>	1.			<u> </u>		<u>Ŀ</u>	3		
			r	47	1 A	ş	1			-: 1	T	. 7	Sit	i. 4	<b>'</b>	٠, ٠	i								[	
					ŀ	4	<u></u>	٠.	- ^		11/	4!					L		L		5:_	*		-	1	
				7	ŀ	7	6. A	7		•	٢	4.3		7.2		. 1	•	ч.			-	•	· -	1.	-	
		•					1.5		Ľ	<b>4</b> ^		4.3	上		<u> </u>		14.			24	<u> </u>	• 7	. N W	7		
		₹		. 7	5	3	. 4	<b>u</b> !	r	3.7	N. H	7.7	1	34	ŀ	. =	h	34	5		ŀ			2	\$ -	
- 4		٠,			1	! 7	_	<u>"4"</u>		3 3	ļ	3	Щ.		1 14		. S 25	<u> ::?</u>		25	5	· · ·	<u>.                                    </u>	' '	5.5	
	ļ ·	•	1. 14			7.7	•	7.3	٠. د		P 11 ₩	3		7	<b>₩</b>	9	١,	2.3	ļ	7.5	ŀ	, -	. *			
- E			4	-	1	- 3	<u> -</u>	₹,		5.3	<u> </u>	2		27			<u> </u>	3.5	M	5.6	ļ:	_::	L		•	٠.
. •		3		, ~	k	* 7	ľ	7. 5	1	3 .	h . w		15	3.0	55	. 3	<b>S</b>	3.7	ŀ		141 -	. ?	i**{ <b>v</b>	3	, -	
	ļ	• •		-	<u> </u>	<u>,</u> ,		2.7	52 ×	3	<u></u>		55.		<u> </u>	44	101	1.			N.H.	<u> </u>		4 '		4
		1	3 4 pt	,	٠.			7	•	* 1	۲,۴	5 '	b.t		14	12	ļ	3 4	•		<u> </u>	21	1.	3.1	,	•
	٠.	3.7		₹:	1		1. 1. M		4 N W	37		34	E			27	<u> </u>	33	. < m	7 3	\$	36	2 N. W		- 5 %	
<i>'</i> :	ł	3 %		3.7	Г	4.1	β-	34	Г -	3 9	г	_	<b>B</b> 3	3 :	Г.	26	1.2	25	r	43	1	3.0	7	57	27	- 5
* * * * * * * * * * * * * * * * * * * *	3.	3.7		*1		_3.7	<u> </u>	<u> 31</u>		2 :		39		38	į	56	<u>s:</u>	<u> 35</u>	, 4	3.0	3-	4.5		47	1 4	5.6
: [	21	4.5	2 "	3.6	7	F 🖺	*	34		30	_	57	r	3 8	_	-	33	31	4	41	5	30	¥ ¥	3:	27	5.7
٧	1	3.		4.	تنا	34	1:	<u>11</u>	22	17	32	57	27		3 ·	_31	86	21	7	28	31	26	<u> </u>	75	32	5
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S.D.					<b> </b>		<u> </u>		L_		<u> </u>		<u>Ļ</u> .		Щ.											
TOTAL OBS.			L		L				L		i		L		L								}			

#### **EXTREME VALUES**

SILETACE ATT

STATION

STATION NAME

YEARS

TATE DEAK BUSTS IN KNOTS

MONTH	JA	N.	F	EB.	м	AR.	A	PR.	•	AAY		JUN.		JUL.	A	UG.	s	EP.	0	CT.	^	IOV.		DEC.	AL MON	L THS
	34	1.3	1	5.5	14	3 3	1	5.8			1	-	<b>P</b> 1	33	:5	50	r	2.		44	9	44	T	4		
					<u> </u>		ļ		ļ		<u>p</u>		Ļ		<u> </u>		19	2 3	34	30		31	1	2		
7				<b>.</b> .	L _	3		31		3 '	1		1								*		<u> 2</u>	3		
	-	37	_	36		34 4 0		47	77	•	73		J			3.5		25		3	1 2	20	1 1 1 c	3 4	7.3	47
	., .			-	г		Г .	-	Γ.		2 3		Γ.		ľ	58 58	r	33	Г	'	Ι.	51	1	ا ، د	• -	•
- , -	2	2.7		3 4 इस		54		41			-		_			3.5		33		33	1	36	0	3.2	27	<b>Á</b> .
,	2.1	30		2.3	_	3.7	-		33		ξ,		r	_	•	-	7	70	1"	34	T 1	32	r	34	, ,	
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MEAN		, 7		5 , 4		. 4 . 3		2.0	1	.7.		41.2	L	31.4		7.1		н • 2		6 <b>.</b> B	1	1.6	1	37.5		1.
S. D.		٠ ٢ ٦				738						. 8 o D		.134				252						434		€1
TOTAL OBS.		213		F 3.7	] ]	76	1	775		1 :3	7	1743		1070	1	319	1	<u> </u>	T	017		UIA	Ι.	1914	1.	23

#### **EXTREME VALUES**

S TREACE WITCS IFROM DAILY OBSERVATIONS

ATEA'. TX STATION NAME

YEARS

DATEM PEAK GISTS IN MNOTS YEARTO ON LETS THAN MIT GASERVATIONS FOR MONTH!

MONTH YEAR	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	ост.	NOV.	DEC.	ALL MONTHS
3,7						3			1				
	<del> </del>				<b>├</b>	2			- 2		344	. 44	7 . 4 <u>C</u>
• 7		ורן זיי	23		1					Ì	1.4	25	1443
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			t 42										1 . 11
		1	25										14.
										-	IN 4°		415.25
					<u> </u>				<u></u>		1.5	24	1.45
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•					<del> </del>			<del>                                     </del>			1.5		
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	1		]	3 -	] ]			]	: 1		-	,	r . v c
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!	15 42									4: 32			
	27				L								Tave
7.7		N						id 27					
	<b></b> _	1					7.6	1.0					T A V T
1.6					17 42			1	1				r i e
· +,	32 47	2 42		14. 47	14 5			0 - 21					-1,26
- 1	2.	7.2			7 70	Ì		, ,					145
7	34 34				<del>                                     </del>			1 72	23 37	3 30			HYNDS
·	1	7.	}		1 1	2		71	11	23			D242
7					1 - 5 %								W1504
					<u> </u>								T Y S
MEAN													
S. D.	<b></b>	ļ											
TOTAL OBS.			1		L								I .

#### SURFACE WINDS

#### PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

<u>,* , 1</u>	DALLAS, TY	73-43		JAY
BTATION	STATION NAME		TEARS	MONTE
		ALL HEATHER		36
		CLASS.		HOURS (L B T )
	<del></del>	CONSTIGN		

SPEED (KNTS) DIR.	1.3	4-6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥54	*	MEAN WIND SPEED
N	1.0	3.2	3.5	3.5	. 3	. 7						11.5	5.9
NNE	1.6	1.5		, ,								3.5	4.9
NE		1.2	- 3									2 . b	4.1
ENE	• 1											• 3	ತ . ವಿ
E_	1.6	1.0	1.0									3,6	4 . 8
ESE		1.3	- 4									2.3	6.C
\$£	1.5	1.0	•6									2.6	5.0
38E	• ₹	l e é	2.7	1.0								5.2	7.8
8	7.7	1.9	4 . 3	5.0	1.0							13.5	5.4
SSW	3.0	1.0	2.6	1.0								8.4	5.8
SW	1."	• 3										2.3	2.6
WSW	) • ~											1.7	1.3
	1.3	• 5	1.						I			2.6	5.4
WNW		1.3	.6	, 3								2.7	6.1
NW	- 1	2.3	1 .	1.3	• 6	7		I				Lol	9.4
NNW	7.6	3.2	4 . 5	₹• ३								13.2	7.3
VARSL													
CALM	$\times$	$>\!\!<$	$\supset \subset$	$>\!\!<$	>>	$\times$	> <	$\supset <$	$\supset <$	> <	> <	17.4	
	14.7	23.5	23.5	13.2	1.0	. 5						100.0	<b>5.</b> 8

TOTAL NUMBER OF OBSERVATIONS

#### **EXTREME VALUES**

S PEACE ATT (FROM DAILY OBSERVATIONS)

STATION NAME

YEARS

DATEM TEAM GUSTS IN MNOTS TO MONTHY

MONTH YEAR	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	ост.	NOV.	DEC.	ALL MONTHS
													arans Dav
- 1		<del> </del>						24			<del> </del>	<del>  -</del>	
								75.			<u></u>		* * * *
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			<b></b>		ļ	<u> </u>				ļ			
j						1							
		<del> </del>	<b></b>	<u> </u>	f	<del> </del>	ļ	<del></del>		<del> </del>	<del></del>	<del> </del>	
							L						
MEAN							<b></b>					<del> </del>	
S.D.		<del> </del> -	<del> </del>	<del> </del>	<del>                                     </del>	<del> </del>	<del> </del>			<del>                                     </del>			<b></b>
TOTAL OBS.		<del> </del>	<del></del>	<del>                                     </del>	<del></del>	<del>                                     </del>	<del> </del>	<del></del>		<del></del>	<del></del>	<b></b>	

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## SURFACE WINDS

#### PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

• • •	BALLAS. TV	73-A3		JAV
STATION	STATION HAME		YEARS	HTHOU
		ALL WEATHER		ិន
		CLASS		HOURS (L B T -

SPEED (KNTS) DIR.	1 - 3	4-6	7 - 10	11 - 16	17 - 21	22 · 27	28 - 33	34 - 40	41 - 47	48 - 55	≥54	*	MEAN WIND SPEED
N	3.€	3.0	4.7	2.8	. 3					Ĺ		12.5	7.6
NNE	1.0	2.5										3.5	4.2
NE	1.3	- 3										1.3	3.3
ENE	1.6	. 3	1.0									2.9	4.2
ŧ		• 3	e tr									1.5	5.7
ESE	1.5	• 5	. 3	. 3					[			2.5	4.6
\$2	, 3	1.3	1.17	,3								2.9	5.2
SSE	• 6	1.5	2.5	. 5								5.5	6.9
	10%	3.2	3.9	2.6								11.3	7.6
\$5W	3.5	1.6	2.5	1.3				<u> </u>		<u> </u>		9.7	5.5
\$W	1.2	- 4										2.5	2.9
WSW	102								L			1.5	2.2
- W				- 3				<u> </u>	<b></b>			1.3	5.5
WNW	1.7	<u>. 1</u>	. 6	. 6						L		2.9	5.6
NW	1.3	2.3	1.7	2.3	3					-	L	6	5.9
NNW	3.2	5.0	3.2	7.7		7		ļ				12.6	7.6
VARBL			Ļ					Ļ				<u> </u>	
CALM	><	$>\!\!<$	$>\!\!<$	$>\!\!<$	$>\!\!<$	$\geq \leq$	$>\!\!<$	$\geq \leq$	$\geq \leq$	><	><	17.1	
	27.2	72.6	21.9	14.2	.6	7						100.0	5.5

TOTAL NUMBER OF OSSERVATIONS 310

SOME

#U.S. GPO 1984 741

# SURFACE WINDS

#### PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

STATION STATION	STATION RAME	7 (- 5 ) YEARS	JAN JAN
		ALL WEATHER CEASE	DOWN (L S T )
		CORDITION	

SPEED (KNTS) DIR.	1 - 3	4.6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	*	MEAN WIND SPEED
N	1.05	3.2	4.5	2.3								11.6	7.9
NNE	1.7	i o	1.2	- 3								5.5	5.3
NE	1.3	- 6										1.7	4.7
ENE	1.3	• 3										1.5	3.4
ŧ	1.6	- 4	1.3							1		3.2	4,3
ESE		- 5	1.3									2.3	5.6
SE	1.6	1.3										3.2	4.5
SSE		1.3	1.5	• 3						<u> </u>	Ĭ	3.9	6.3
5	1.6	3.0	4.2	3.9	1.0							14.5	9,5
SSW	2.3	1.5	2.6	1.0								7.7	5.5
SW	3.0	• 3										3.5	2.6
W\$W	7	4.6										1.7	3.0
- w			. ?									1.3	5.7
WNW	. 7	7	1.7	7		• 3				1		2.7	9.1
NW	1.3	2.3	1.3	1.3								6.6	7.
NNW	1.7	2. 9	1.7	4.1	1.3					1		12.3	c . 1
VARBL		<del></del>											<del>-7.3</del>
CALM		> <	$\times$	> <	$\times$	$\times$	> <	$\geq$	$\supset \subset$	><	><	17.7	
	21.0	22a±	22.3	13.5	2.6	-3						120.5	5.8

\$U.S GPO 1984-741-348/201

#### PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

STATION .	STATION NAME	73+45	YEARS	HTROW
		ELE WEATHED		100 ms (L 0 V -
		COMPITION		

SPEED (KNTS) DIR.	1 - 3	4-6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	*	MEAN WIND SPEED
N	2.5	2.5	<b>.</b>	3.2								14.5	€.4
NNE	100	1.3	4									3.5	5.
NE		2.3	1.									3.2	6.
EME		_ <u> </u>	5							I		1.3	6.0
E	1.	2.3										3.2	4.
383		1.	1					I				2.3	5.
SE	4.5	- 4.5		6								1.0	8.
38E	1.4	1.4	2.6	4.								6.1	6.
5	2.3	4.5	4.2	2.46	. 3							13.3	7,
\$5W	- A.F.	2.3	1.0	2.9								9.7	7.
SW	1	- 6			3							1.5	6.
WSW	ا فعا											1.0	2.
w		4.5	ı b	. 3								3.2	5.
WNW			1.7	4.6		. 3						2.3	17.
NW	9.6	1.6	1.1	1.9	1.2							6.1	10.
HNW	• 4	2.3	4.2	3.2	1.3	. 3						11.9	10.
VARBL													
CALM	$\supset \subset$	$>\!\!<$	$\mathbb{X}$	$\times$	$\times$	$>\!\!<$	$\times$	$\supset \subset$	$\supset <$	$\supset \subset$	> <	13.5	
	1".5	24.9	25.2	16.5	3.9	. 6						170.0	6.

TOTAL NUMBER OF OBSERVATIONS 317

SMOS

# SURFACE WINDS

#### PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

SYATION	CALLAS TY STAYION HAME	73-92	YEARS	JA1:
	<del></del>	ALL NEATHER		NOVER CLST.
		COMPITION	<del></del>	

SPEED (KNTS) DIR.	1 - 3	4-6	7 - 10	11 - 16	17 - 21	22 · 27	28 - 33	34 - 40	41 - 47	40 - 55	≥56	*	MEAN WIND SPEED
N		3.	2	4	1.7	, ,						12.0	10.5
NNE	•	1.0	2.3									4.5	6.5
NE	2	1.5		. 3								2.5	5.8
ENE		2.1	1.0									3.6	6.1
£												1.7	4 . 4
ESE	1.3	. ₹.	• ?	. 3								7.3	5.6
SE	7.3	1.5	1.0	. 6								5 • :	5.2
85E		2. ?	3 . 0	1.3								9.4	6.5
\$	1.7	2.4	5.2	2.2	1.0	• 3			<u></u>			15.5	9.9
SSW		-	2.00	100	. 6	• 3			L			4.0	13.2
SW		• 6	1.3	1.3								3.6	8 . 5
wsw	:.0	1.5	9.5	. 6		•			<u> </u>			3.t	6.1
w	1.5	2.3	• 5	1.0					<u> </u>			3 • •	7.3
WNW	: 0	. 3	1,	. 6		• "						3.6	8.7
NW	1.	• 3	7,0	1.6	1,0	• 3						7.4	10.0
NHW	7.	1.3	4	2,0	1,3	7			<u> </u>			13.4	15.*
VARBL							L						
CALM	><	$>\!\!<$	$>\!\!<$	$>\!\!<$	$>\!\!<$	$>\!\!<$	$>\!\!<$	><	$>\!\!<$	$>\!\!<$	$>\!\!<$	4.5	
	17.3	24,0	20.4	21.7	5.0	2. 1						100.0	k , a

TOTAL NUMBER OF OSSERVATIONS 3:29

# SURFACE WINDS

#### PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

STATION	SALLAS . TY	73-52	YEAMS	JAY
		ALL MEATHER		HOURS (L.S.T.)
		COMBITION	<del></del>	

SPEED (KNTS) DIR.	1 - 3	4.6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥54	*	MEAN WIND SPEED
N	1.3	3.7	4 . 2	7 7	7							12.0	8.5
NNE		1.6	1.3	- 3								4.2	6.1
NE		1.3		γ.								2.3	2.6
ENE			1.6									1.7	3 . ?
E	2.03	1.6	- 6	. 3								3.	6
252		1.3	1.0									2.9	5.3
SE	1.7	1.1	1.5									3.7	5.4
SSE	2.7	2. ◊	2.0	2.3	. 6							11.0	7.7
\$	1	2.6	5.1	3.5	1.3							15.2	10.0
55W		IAC	1.7	1.3		• :						4.	10.3
SW_				1.0								1.	9.7
wsw			1 4 1		- 6			]				2.5	11.1
W	. (-	1.2		1.2								2.5	7.5
WNW		1.0	<b>a</b> (	1.3	16	• 1						1.9	11.5
NW		1.0	2.5	1.6	1.9							5,4	10.9
NNW	•	1.	4.2	5.6	3.0							12.3	11.1
VARM													
CALM	$\times$	$\times$	> <	$\times$	$\times$	$\times$	> <	$\supset <$	$\supset <$	><	> <	6.1	
	10.3	22.3	30.3	27.2	6.5	1.3						1-0	5.4

TOTAL NUMBER OF OSSERVATIONS 310

#### SURFACE WINDS

#### PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

1-6:	MALLAS, TV	73+52	JAN
STATION	STATION HAME	YEARS	MONTH
		ALL WESTHER	1.
		CLASS .	MOVES (LST
	<del> </del>	CONSTITUT	<u> </u>

SPEED (KNTS) DIR.	1 - 3	4-6	7 - 10	11 - 16	17 - 21	22 - 27	29 - 33	34 - 40	41 - 47	44 - 55	≥56	*	MEAN WIND SPEED
N		13	11 . 2	2.5								15.2	7.5
NNE	, ,	1.7	1.3	ħ								b . 5	5.3
NE .	2.4	1.9										5.2	3.5
EME	•5.	1	,									1.	4 . 4
	2.	2.3	• 3									4	4.2
ESE		2. 6	1.									4.5	4.8
SE	1.0	1.0										4.5	5.2
SSE	3.2	3. 7	7 , 1	1.0								11.6	5.0
\$		3.2	7	. 6								10.0	6.3
SSW	<u>`•</u> 5.	1.5	1.	• 3								5.5	b , 9
SW	I			•								•6	7.
WSW	• -	• 5										1.0	3.7
*	•	• 6	. ?	• 3								1.6	7.4
WNW	• 4	1.	. 6	•6								2	7.5
NW	1.5	. 5	1.9	3.4	. 3								9.8
NNW	1.0	1.9	5 • ?	2,3	• 3							9.7	5.4
VARBL											Í		
CALM	$\supset <$	> <	$>\!\!<$	$>\!\!<$	><	><	><	><	><	><	> <	9.	
	27.4	<b>70.</b> 0	27.7	12.5	.6							100.5	6.0

G.

#### SURFACE WINDS

# PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

STATION	NACLANA YE	STATION HARE		YEARS		JA"
	-		CLASS CLASS	**	<del></del>	HOURE (L S Y
			COMBITION			

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	*	MEAN WIND SPEED
N		2. 2	7	2.6	*							10.4	9.1
NNE	3.3	2.3	. 3	. ž.					<u></u>	L		5 6	4.9
NE	1.0	1.7		. 3						i			4.6
ENE		4	7									1	4.5
E	1.5	1.1	1.2									4 . 5	5.3
ESE	4.	2.3	. 3									3.2	4 . ?
SE	1.7	1.5	1.7									4.5	4 . 5
SSE		2	7.0	2.0			[					0.4	3 • 1
\$	د ه <sup>د</sup>	5.7	4 .7	2.3								13.5	7.5
SSW	4	1.3	,	. 4								3.	t e :
SW													2.
wsw	1.1									Ĺ		1.	3 •
w		10.										105	6.01
WNW	2.	10.	• t:	۲ و					[			3.	5.
NW	1.	3.5	2.3	1.0	o £				Ĺ.,			7.4	0.0
NNW	1.6	5	2.3	2.0								7.4	4 . 1
VARSE													
CALM	$\supset \subset$	$>\!\!<$	><	$>\!\!<$	$>\!\!<$	$>\!\!<$	><	$\geq <$	><	> <	$\geq <$	17.	
	1:.4	27.7	21.6	14.5	1.0							100.0	5.8

TOTAL NUMBER OF OBSERVATIONS 7.1 i.

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#US GPO 1984 74

G.

#### SURFACE WINDS

#### PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

STATION	TALLS & THE	13-81	YEARS	J L -
		ALL MERTHER		ALL MOURS (L S T
		CONDITION		

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	20 - 33	34 - 40	41 - 47	48 - 55	≥56	*	MEAN WIND SPEED
и	1.0	3.1	-i . ;	3.3	• 5.	• 1						1.3.	با ۾ :
NNE	1.1	1.	• •	3	•					l		4 6 4	5.5
NE	1.1	1.0%	• 24	• i								7.1	4,2
ENE		• 7	. (									1.5	5.1
ŧ	~	1.3	•	•								3.1	4 . 2
ESE	• *	1.5	•	• !							Ĺ	2.5	5.4
SE	3.0	1.7		• 7								3	3.4
SSE	1.	?• `		1.3	• 1							1.9	7.1
5	•	3.4	4 , ×	2.7	. 5	• 1					<u> </u>	13.5	1.02
SSW	1.6	2.0	1.	1.3	. 1	• 1						U • *	7.1
SW	•	• 4		. 4	٠,٦					<u> </u>		1.1	
wsw	• '	. 4	• .	• 2	1	• !						1.7	5.8
w	• `	• 7	• 11	, is							L		6.4
WNW			• :	<b>.</b> €.	• 1	• 2							F . 4
NW	• *	1.	2.	1.2	, 7	• }						2	9.7
NNW	101	2.	3.5	7,4		• 1						11.7	5.1
VARBL													
CALM	$\searrow$	$>\!\!<$	$>\!\!<$	$>\!\!<$	$>\!\!<$	$>\!\!<$	$>\!\!<$	$>\!\!<$	$>\!\!<$	$\geq \leq$	$\geq \leq$	12.4	
	13.2	24.5	24.7	16.3	2.9	, ,						179.5	6.5

TOTAL NUMBER OF OBSERVATIONS

SMO8

## SURFACE WINDS

# PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

•	DALLAS. IF	73-3.		FEG
STATION	STATION HAME		YEARS	#ONTH
		ALL WESTHER		20
		CLASS		HOURS (L S T )
		CONSITION		

SPEED (KNTS) DIR.	1 - 3	4.6	7 - 10	11 - 16	17 - 21	22 · 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	*	MEAN WIND SPEED
и	1.0	2.5	2.5	2.1								9.9	7.4
NNE	فعا	. 7	1.4									3.5	5.2
NE	,	1 . a	- 1					L				2.8	4.3
ENE												. 4	<b>*.</b> p
E	5.8	1.4	1.4	. 6								5.7	5.1
ESE	£.	1.4	4	7								2.0	7.5
SE	1.1	2.1	7	_ 14								4.3	5.1
SSE	1.1	1.1	7	1.1								3.7	4.9
\$	2.2	3	<u> </u>	3.5	1.4							72.7	9.7
SSW		1.4	1.1	1.5								8.2	56
SW	- 1	,								I			2,5
wsw	,	£	i;									1.4	5.0
w				7								1 . 4	7.5
WNW		, ,	7	1.1								2.5	3.9
NW		le m	1.0	1.1								5.4	6.0
NNW	4	3.5	3.1	2.5	. 7							10.3	5.1
VARBL												I	
CALM	$\supset <$	><	><	><	><	><	$\geq <$		$\geq <$	><	$\supset <$	12.1	
	.100	24.1	19.9	20.2	2.1		_					110.0	6.1

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## SURFACE WINDS

#### PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

STATION	STATION RAME	13-42	YEARS	F C B
		ALE SEATHER		NOUNE (L.S.T.)
		ÇÔN DITTION		

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	20 - 33	34 - 40	41 - 47	48 - 55	≥54	*	MEAN WIND SPEED
N	1.0	4.3	2.5	1.4								9.0	6.9
NNE	• *	1.1	1.1									2.5	6.0
NE	1.	e fe	. 4		. 4							2.5	5.6
ENE		. 4	, át						I .			.7	7.0
	1.4	. 7										2.1	3.2
ESE	.7	1.1	1.1	7								3.5	6.8
SE		. 4	• 7									1.1	7.3
33E		2.5	3.2	. 4								6.4	7.6
\$	3.0	3.2	3.5	7.1	1.4							19.1	9.7
SSW	1.2	3.5	3.4	1.1					Ι'			11.3	6.3
sw	3.5	1.1	1.1									4.5	4.2
W\$W	1.1	. ?			. 4							2.1	5.3
w	1.4	. 7	1.4	1.1								4.6	7.2
WWW	.4	. 7	• •	7								2.5	9.7
NW	1.4	1.4	. 4	1.1								4.5	6.1
NNW	3.5	3.2	2.5	2.5	. 4	, 4						11.3	7.9
VARBL													
CALM	$\boxtimes$	$>\!\!<$	$\supset \subset$	$\supset \subset$	$>\!\!<$	><	$\supset <$	>>	> <	$\supset <$	> <	11.3	
	22.0	25.2	22.3	16.3	2.5	. 4						110.0	6.4

TOTAL NUMBER OF OBSERVATIONS 2 8 2

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# SURFACE WINDS

### PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

STATION	CLA-LAE TH.	73 = 9.2 YEARS	F 3 3
	ALL WE	ATHES	0,9
	- C	LANG	HOURS (L S T )

SPEED (KNTS) DIR.	1 - 3	4.6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	*	MEAN WIND SPEED
N	, 7	2	4 , 19	1.6								A . ~	10.1
NNE	1.4	2.0		. 4								4.5	ن و گ
NE		1.4	4									2.1	7.0
ENE													
E	- 1	g 44	1,4									3.℃	4,7
ESE	7	2.1	1 . 5	. 4			[					4.5	6.3
\$1		1.	2.1						L			4 . 3	6.4
352	1.0	1	7.1	1.8								7.4	7.4
	7.1		4.5	5.0	1.9							17.4	9.4
35W	1.4		3.2	2.1								9.0	7.3
\$W		. (4	1.1	, 4,						L		1.2	9.4
WSW	•,,			e fa			L	I		L		• 7	8.5
W	, L	, 7	1,4	1.4								3.7	9.7
WWW	- (+	. 4	1.1	1.8	, 4							3.0	10.5
NW	1.4	1 0 4	3.0	2.1	_ , 7							9.5	8.9
NNW	1.	1.4	7.0	2,9	. 4							10.3	8.7
VARM													
CALM	$\supset \subset$	$\times$	$>\!\!<$	><	$>\!\!<$	$>\!\!<$	$\supset <$	$\supset \subset$	$\supset <$	><	> <	7.4	
	14.5	22.0	31.0	20.6	3.9							100.0	7.6

TOTAL NUMBER OF OBSERVATIONS

282

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#U.S. GPO 1984 741:348/201

## SURFACE WINDS

### PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

									,,,,,,,,				
					ALL SE	ATHES							06 (CST)
					CON	DITION							
	_												
SPEED (KNTS) DIR.	1.3	4.6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	*	MEAN WIND SPEED
N	1.4	3.2	1.2	2.1	. 4							3.9	7,4
NNE	1.1	141	1.1						I			3.2	5.3
NE	1.1	1.4										2.5	3.9
ENE	7											.7	1.0
ŧ			1.1									1.8	6.2
ese	7	7	- 4	7								2.5	5.7
SE	2.1	1.1	7									2.9	5.3
352	1.1	1.5	3.3									7-1	6.8
\$	3.5	3.5	5 a i	4.3	7				<u> </u>			16.3	8.4
ssw	7. 7	3.2	3.2	1.1								12.0	5.5
SW	ء د	1.4						Ĺ				3.7	3.3
wsw							<u> </u>					- 4	2.1:
w	ن و		1.5						<u> </u>			2.5	0.0
WWW		أفعل	2.4	1.1								6.4	8.9
NW	104	3.5	1.3	7								7.4	6.3
MMM	1,4	1.5	7.5	2.8	, 4							8.5	3.5
VARBL				L									
CALM			$\sim$				><				$\sim$	12.4	1

TOTAL NUMBER OF OBSERVATIONS

252

# SURFACE WINDS

### PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

STATION	TALL	12	SYATE	PH KAME				-0-	 	EA <b>RS</b>		 	FER
011121		_				\$LL	SEATH CLASS	£#					12
		_					CLASS				<del></del>	NO	WRS (L.E.T.)
		-					COMBITION		 _				
		_							 		<del></del>		
		_	_			_			_				
r				1	T							1	1

SPEED (KNTS) DIR.	1 - 3	4+6	7 - 10	11 - 16	17 - 21	22 · 27	20 - 33	34 - 40	41 - 47	48 - 55	≥56	*	MEAN WIND SPEED
N	1.1	101	3.3	2.1		- 4						2.9	7.5
NNE	1.4	1.1	7	7								3.9	6.2
NE		. 7	. 7									1.4	6.5
ENE			. 4									. 7	5.5
E	1.1	1.4	1.1		4							3.0	6.2
535	ial	1.4		4				L				3.2	5.3
SE		2.1	1.3	7								5.5	6.0
SSE	1.0	2.5	1.5	1.6	4							8.2	7.6
\$	2.3	2.1	4.7	3 4 5	1.4	1.1						25.05	13.7
\$5W		. 7	2.3	2.9								6.4	13.1
SW			1.4	. 7				L				2.1	10.7
wsw		1.1	. 4	. 4								1.8	6.6
w	+	. 7	1.3	.7	7							4.3	6.7
WW	- 14	. 4	2.1	2.5	. 7	7						6.7	12.7
WW		4.1	2.5	2.1	1.4							8 . 5	10.4
NNW		1.1	4.3	4.6								9.7	4.8
VARBL													
CALM	$\supset \subset$	$\geq <$	><	><	> <	><	><	$\geq <$	><	$\times$	X	4.6	
	10.5	13.4	30.5	24.0	5.7	2.1						100.0	8.9

TOTAL NUMBER OF OSSERVATIONS

# SURFACE WINDS

# PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

. 1 1 1	DASEAS. TO	13+82	£28
STATION	STATION NAME	YEARS	#OATH
		ALL WEATHER	15
		CLASS	HOURS (L.S.T.)
			_

SPEED (KNTS) DIR.	7 - 3	4-4	7 - 10	11 - 16	17 - 21	22 - 27	20 - 33	34 - 40	41 - 47	40 - 55	≥56	*	MEAN WIND SPEED
N _	- 4	. 7	7.0	1.04	141	, ii						7.4	13.7
NNE	1.1	1.1	7	. 7								3,5	7,2
NE	į.	. 7	1.0									7,5	6,6
ENE		• ?	_ , 7						l			1.5	6.0
E_		1.1	. 4									1.3	5.0
ESE	. 4	. 7	. 7	_ ti								2.1	7.C
SE	1 2	103	7	7					L			5.0	5.6
85E	, ,	4	3.2	1.4	ية و							7.4	8.6
5		1.0	7.1	8.0	1.1	1.4						22.7	11.0
\$\$W_	• 7		. 4	1.4								2.5	3.9
SW	,	1.1	• 7	1.8			- 4		L	}		W.t.	10.5
W\$W			1.4	, is								2.1	1.5
w		?.1	2.5	1.1	, 7					<b></b>		5.4	9.5
WHW		1.1	2.4	2.1								5.7	9.6
NW _	• •	. 4	2.5	2.3	, 7	. 4				L		7.1	12.1
NNW	• 7	2.1	3,4	3.5	1.1	. 4						11.3	10.5
VARSL													
CALM	$\times$	$>\!\!<$	><	$\times$	$>\!\!<$	>><	$>\!\!<$	$\geq <$	$\geq \leq$	$\geq \leq$	$\geq \leq$	5.7	
	13.6	17.0	32.3	25.6	5.0	2.5	,4					100.0	7.1

TOTAL NUMBER OF DESERVATIONS 282

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#U.S. GPO 1984 741 348/201

# SURFACE WINDS

# PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

377 1	ALLAS. IS	13-17	
STATION	STATION WARE	YEAR	RS #QMTH
		ALL SEATHER	
		CLASS	NOVES (L.S.T.)
			<u> </u>
		CORDATION	

SPEED (KNTS) DIR,	1 - 3	4.6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥54	*	MEAN WIND SPEED
N	las	4.0	5.3	2.3	4.5							14.5	7.7
NNE	1.1	2.1	1.5									4.5	3.2
NE												. 7	6.5
ENE		2.1										2.5	4.5
E		1.2										2.1	5.0
ESE	1.4	2.5	1.4									5.3	4.9
SE	3.6	2.1	1.0	. 4								7.1	5.3
SSE	ذه ا	3.2	5.0	1.9								11.7	7.4
5	1.1	3.7	4.0	5.2	1.4	. 4						16.	9.6
SSW	1.1	2.1	7									3.0	4.6
SW	, i.	. 7		. 4								1.4	8.0
wsw		• •									-	,	4.5
w	1.1	1.1	. 4	.7	. 4					1		3.5	7.5
WNW		43.1	4	2.1								2.4	11.3
NW		1.8	3.2	1.0	1.1	. 4						8.5	10.2
NNW		2.0	4.6	1.4	1.1							10.3	4.9
VARBL												1	
CALM	><	$>\!\!<$	>>	> <	>>	$\times$	>>	>	>>	$\boxtimes$	>>	3.7	
	17.5	31.65	29.1	15.7	403	. 7	-		,			100.0	7.4

TOTAL NUMBER OF OSSERVATIONS 2 8 2

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## SURFACE WINDS

# PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

STATION	TALLAS, Tr	73=9.7	E E 3
		ALL WEATHES	HOURE (C S Y .

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 · 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56		MEAN WIND SPEED
N	1.01	5.7	3,5	1.4								12.1	6.7
NNE		, ,		. 4					L			2.1	6.5
NE	• •	1.1				l			Ľ			7.:	4.7
ENE	1 • *	•					L		L			2.5	2.6
ŧ	2.	3.5	1.1									7 . 1	4.6
ESE	1.1	1.2	•									3.5	5.0
SE	1.	1.4	• 1	1.6	. 4							5.7	7.1
SSE	1.0	4.3	3.5	2.1								11.7	7.3
8	1.5	4.3	5.3	3.0	• 4							15.6	8.3
35W	1	1.1	• <b>4</b>	, is								3.2	4.8
\$W		1.1										1.4	4.3
WSW	• 4	, 4										• 7	3.5
w	- 4	, 7	. 7		. 4							2.1	3.2
WNW	• •	1.1	1.1	. 7								3.2	5.3
NW	1.0	2.5	1	1.1	, 4							7.1	7.3
NHW	• 7	3.2	1.4	2.1	1,1	9.4						6.9	9.4
VARSL													
CALM	$\supset <$	$>\!\!<$	$\times$	$>\!\!<$	$>\!\!<$	$>\!\!<$	$>\!\!<$	$\geq <$	$\geq \leq$	$\geq \leq$	$\geq \leq$	11.3	
	11.1	37.3	21.3	13.5	2.5	. 4						100.0	6.2

TOTAL NUMBER OF OBSERVATIONS

282

SMOS

JS GPO 1984 741 348/20

# SURFACE WINDS

## PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

STATION	STATION NAME	73 = 9.7 YEARS	FFP MONTH
	•	ALL WESTHER GLASS	MOURE (L.S.T.)
		COUNTRIES	_

SPEED (KNTS) DIR.	1 - 3	4-6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	*	MEAN WIND SPEED
N	1.2	2.8	3 5	2.0	. 4	.1			<u> </u>			9.5	9.1
NNE	1.5	1.3	9	. 3								3.5	5.7
NE	_ 5	7	L.	- 1	- 3							2.1	5.4
ENE	- 24	5										1.2	4 , 2
E	1.3	1.3	4	.0	ů.							3.5	5.7
ESE	3	1.8		4								3.5	6.0
\$£	1.2	106	1.2		. 3							4.4	6.5
SSE	1.2	2.3	2.7	1.3	a1							8.2	7 .
\$	2.5	3.3	5.1	5.4	1.2	9						12.6	9.6
\$\$W	2.1	1.0	1.7	1.3								7.3	6.4
SW	1.1		5	. 44								2.9	6.
W\$W			3	.1								1.2	6.5
w	-		1.2	3.	. 3							3.5	8.6
WNW		- 2	1.4	1.5	. 2							4.5	10.1
NW	101	1.9	2.2	1.6	. 5							7.4	8.7
MMW	1.1	2.3	3.1	2.3	. 6	. 1						10.1	٠, ٦
VAREL												I	
CALM	$\triangleright \!\! < \!\! <$	$>\!\!<$	$\times$	$\times$	$\times$	><	$\geq <$	><	$>\!\!<$	$\supset \!$	$\times$	f: • f:	
	16.7	24.5	26.6	19.4	3.*	. 1						170.3	7.2

2256

# SURFACE WINDS

# PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

V 24 1	LALLAS. T.		73-62		
HOTTATE		STATION NAME		YEARS	MONTH
	_		ALL HEATHER		<b>©C</b> _
	_		CLASS		HOURS (L S T :
	-		COMPLTION		

SPEED (KNTS) DIR.	1 - 3	4 · 6	7 - 10	11 - 16	17 - 21	22 - 27	20 - 33	34 - 40	41 - 47	48 - 55	≥56	*	MEAN WIND SPEED
N	1.5	1.5	1.5	2.3	• 3							7.01	8.3
NNE	1	1.3	1.3									3.7	5.3
NE		1.0	• 3									2.3	4.3
ENE	2.3		. 5									2.9	3.7
	• 6	2.3	1.5									4.5	5.6
ese	,	1.6	1.*	. 55					,			2.0	7.5
312	• 12	1.5	7.3	2.0								8.1	A . 6
\$5E	1.0	2.3	2.6	5.2	. 3							11.3	9.5
\$	1.0	1.0	5.5	113	1.6							70.0	11.1
SSW	3.2	1.0	1.7	. 6								7.1	5.2
sw	1.6											1.6	2.2
WSW	• 5		. 3		7							1.7	8.2
w			• 3	1.6		. 3				Î		3.2	11.3
WNW		• 4.	1.7	1.5:	. 3				ĺ			7.2	15.2
NW		. 1.3	1.,									4.5	7.5
NWW	1	2.3	1.5	1.0	4.3.		]		]			5.5	0.1
VAROL										T			
CALM	$\bowtie$	$\times$	>>	$\times$	$\times$	$\times$	> <	$\boxtimes$	$\times$	$\supset <$	>>	9.7	
	15.	19.0	24.	26.1	3.2	. 3						170.0	7.5

TOTAL NUMBER OF OBSERVATIONS 310

SMO

MUS GPO 1984

## SURFACE WINDS

# PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

STATION	CTATION HARE	77-3	YEARS	MAR.
	ALL	STATHE?		NOVRS (L.S.T.)
		CONSTRUCT	<del></del>	

SPEED (KNTS) DIR,	1-3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	20 - 33	34 - 40	41 - 47	48 - 55	≥56	*	MEAN WIND SPEED
N	1.7	2.9	1.6	1.0	1							7.1	6.7
NNE	1.0	<u></u>	1.1									3.3	0.1
NE	17	. 3										1.3	2.3
ENE		1.3						[				1.9	5.2
ŧ			1.0									2.3	5.6
ESE	- 3	2.3	• 6	1.6								4.6	7.8
SE	a t	1.3	2.3	1.0								6.5	3.7
SSE	:	1.3	2.2	7.2	. 1							8.7	9.1
S	3.3	2.6	5.2	2.4	1.6							1.3	10.2
SSW	2.5	2.6	2.3	1.6								9.4	6.3
SW		1.6	. 3									2.9	4.5
wsw												- 3	7.5
w	1.5	- 3	A É-	. le	3							3.2	7.8
WNW	7	. 7	1.5	1.3	1.0							4.0	11.3
NW		1.5		1.5	_ 3							3.	9.7
MMW	1.	2.3	1.3	2.3	_ 5							7.7	9.7
YARDL													
CALM	$\times$	> <	><	><	$\times$	>>	><	$\supset <$	$\supset <$	$\supset \subset$	><	10.6	
	15.2	21.3	22.1	23.5	4.5							100.0	7.4

TOTAL NUMBER OF OBSERVATIONS TIG

**SMO**:

#US GPO 1984

# SURFACE WINDS

# PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

3 * 3 * 1	DALLAS, TY	77-42	₩ ஆ છ
STATION	STATION HOITE	YEARS	MONTH
		ALL RESTHER	58
	· · · · · · · · · · · · · · · · · · ·	CLASS	HOURS (L S T )

SPEED (KNTS) DIR.	1 - 3	4.6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	*	MEAN WIND SPEED
N	1.7	10"	7.3	. 6	• 3							5.3	4.0
NNE		4.	1									1.6	6.2
NE	7	2.3	۶ و									7.9	5.2
ENE	7.	• +	. 3									1.5	4.5
Ľ		1.9	1."	. 3								3.0	ن و تو
ESE	1.	1.6	1.3									3.5	5.7
\$£	.3	103	1.7	1.3	3							4.2	9.3
\$\$E		2.5	2.7	7.2	3							7.4	♥.0
\$	1.0	3.	3.5	9.4								₹0.3	<u>ن ۽ ج</u>
\$5W	•	2.6	3.7	1.0								10.6	5.0
SW	7.	1. 3										7.7	2.6
WSW	1 . 4.											2.5	3.0
w		ژو		1.								2.5	7.0
WNW		<u>. i</u>	1.0	• 6								2.3	9.6
NW			1.7	1.0	<b>2</b> 5,	<b>\$</b> 3						3.0	11.4
NNW	2 • 3	4.2	2.2	2.0	. 3	• 3						11.7	7.9
VARBL													
CALM	><	> <	$>\!\!<$	$>\!\!<$	> <	$>\!\!<$	$>\!\!<$	$>\!\!<$	$\supset <$	$\searrow$	> <	11.5	
	17.4	25.3	22.2	20.3	1.6	. 6						110.0	6.2

SMOS

#U.S GPO 1984 741 348/201

# SURFACE WINDS

# PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

STATION	STATION HAME	YEARS	ы д п монти
		ALL SEATUES CLASS	() C
		CONDITION	

SPEED (KNTS) DIR.	1 - 3	4-6	7 - 10	11 - 16	17 - 21	22 · 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	*	MEAN WIND SPEED
N	1.1	2.3	7.	let	. 7	.3						£ . 1	5.4
NNE	1.3		í									? . :	5.3
NE		1.0	7.1	•								1.6	6.6
ENE		1.0	1.									3.5	5.3
E	1	1.7	1.3	1.3	_ 3							4 . 3	3.5
ESE	3.0	1. 7	1.7	1.2								4 . 5	7.7
SE		1.0	1.3	1.2	- 3							4.5	٥.>
SSE	2	تما		1.7								3.7	7.5
5	1.3	2.7	4.3	3.4	2.6							12.1	11.6
SSW		•	7	1.3	3							9.4	5.3
SW	<u> </u>	•	1.4	P. 3								3.0	7.2
wsw			,	. 3									3.5
w			1.	4.6		.,						3.7	9.9
WNW			• **	1.0	6	3			<u></u>	<u> </u>		7.2	12.6
NW	1			3.5								5.5	11.0
NNW	, ;	7.3	¥ .	3.		• 7						10.3	4.6
VARBL													
CALM	$\triangleright\!$	$>\!\!<$	$>\!\!<$	$>\!\!<$	$\times$	$>\!\!<$	> <	$\geq <$	$\geq <$	$\supset <$	$\geq \leq$	3 • 1	
	11.7	21.0	30.1	27.7	5.5	1.:						110.1	٧.0

TOTAL NUMBER OF OBSERVATIONS 317

SMOS

# SURFACE WINDS

# PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

100	1 Mar 45 . To	77-82		<b>4g</b> :
STATION	STATION NAME		YEARS	BONTH
		LE WEATHES	_	17
		CLA96		HOURS IL S T
		COMBITION		

SPEED (KNTS) DIR.	1 - 3	4 · 6	7 - 10	11 - 16	17 - 21	22 · 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	 	MEAN WIND SPEED
N	,	• 4,		2.0		, ,						7.0	10.4
NNE		7.1		7.									0.1
NE		1.0	1.7							1		2.	7.5
ENE		• ,										1 - *	5 . A
ŧ		1.3	1.	1.7								3 • 3	7.4
ESE	1.	; • ^	:.6	1.3						i		1 * • 1	7.7
SE		1.7	1.0	1.7								3.1	7.4
SSE	1.	3.	2 g ft.	.7 . 7	• 3							12.8	6.7
\$		٦.	3.0	v • 4	¥.5	• 4						11.00	12.8
\$5W		• 3	7.	7.6	• 6	• 7						7	12.2
SW		• 7		- 4	4.							2.	15
WSW			•	1.3	• 5							2.01	14.1
w	• ;	• *	• 7.	1.7	• 3	• 1						7.7	11.5
WNW	. ;	. 1	• 7	1.0	• 6	. 1						2.€	12.2
NW	• 1.	• 3	1.4	3.5	. 4							4.6	11.7
HNW		1.	1	3	• 5							7.1	11.
VARBL													
CALM	$\supset \subset$	$\times$	><	$\times$	$\times$	$\times$	> <	$\times$	$\times$	> <	>><	2.1	
	~ •	17.1	2	33.5	9.7	1.9						113.1	16.00

TOTAL NUMBER OF OBSERVATIONS

11:

SMOS

# SURFACE WINDS

### PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

. 191	121145. Te	73-52	
STATION	STATION HAME	YEARS	HTHOM
		ALL STATHE?	15
		CLASS	NOURS (C.S.T.)
		CORDITION	

SPEED (KNTS) DIR.	1 - 3	4 · 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	40 - 55	≥56		MEAN WIND SPEED
N		. 3	2.3	1.9		- 3						5.8	11.1
NNE		1	1.6	[								2.5	7.1
NE		. 6											5.0
ENE		1.	1.7									2.9	5.0
E		ا ما	1.7	1.1.1	3							4 . E	7.7
ESE	1.1		a è	2.9								6.2	8.4
SE	1.0	3	1.3	1.5								3.0	8.1
SSE	, ,	1.	2.0	5.5								13.2	10.5
5		1.7	2.5	11."	5.2	غو			L			22.3	13.3
SSW			ž.	1.3	6							2.3	12.7
sw			1.	100					L			7.3	13.3
wsw	Ţ	1.	,	2.3								4.5	11.1
w			1	2.3		. 3			L			4	11.8
WNW		•	. 5.	10#	1.2				L	L		3.9	13.7
NW			1.	3,5					<u></u>			4.2	11.6
NNW	•	2.3	1.	4 . 2	1.3	. 7						11.7	11.5
VARSL													
CALM	$\geq \leq$	$\times$	$>\!\!<$	$>\!\!<$	$\geq \leq$	$\geq \leq$	$\geq \leq$	$>\!\!<$	$\geq \leq$	$\geq \leq$	$\geq \leq$	7.3	
	9. •	100.	22.	41.2	11.9	1.2						110.1	10.2

TOTAL NUMBER OF OBSERVATIONS

# SURFACE WINDS

# PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

2 :	ALLAS, TA	73-42	MAR
STATION	STATION MAME	YEARS	MONTH
		BLL WEATHER	1 #
		CLASS	HOURS (L.S.T.)
		CONDITION	

SPEED (KNTS) DIR.	1 - 3	4.6	7 - 10	11 - 16	17 - 21	22 . 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	*	MEAN WIND SPEED
N	1.0	2.0	2.5	2.3								9.	9.0
NNE		7	1.3			• *						2.3	13.6
NE			1.5									2.3	€.3
ENE	1.0	1.1	• fs									3.3	4.5
E		2 • *	1.7	• 6								5.5	6.2
ESE	• (	1.5	1.3	2.3								3.6	8.0
3.0	1.0	1.	3,5	1.5								8.1	7.5
388		3.3	6.2	5,5	• 6							14.9	9.7
8		100	2.5	7.7	1.4							36.5	12.6
55W		1.5	• 1.	•6	. 3							3.5	7.6
SW_	• •	• 4	. 4	**								1.7	6.8
wsw			1.2	1.6				L				2.4	11.3
W			1.3	1.0	1,0				Ĺ <u> </u>			3.5	12.1
WNW		1.0	1.7	1.0	1.7					L		*	10.5
NW	1	1.00	1.0	1.3		• 3						3.7	10.0
NNW		1.7	2.3	4	9 &							9.0	10.5
VARBL													
CALM	$\boxtimes$	$>\!\!<$	$>\!\!<$	$>\!\!<$	$\geq \leq$	$>\!\!<$	$>\!\!<$	$\geq \leq$	$\geq <$	$\geq \leq$	$>\!\!<$	2.9	
	- 1	21.6	23.7	31.9	5.5	1.5						100.5	7.2

TOTAL NUMBER OF OBSERVATIONS	310
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SMOS

# SURFACE WINDS

### PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

STATION	STATION HAME	/3-63 YEARS	MAR MONTH
		AFETHER CLASS	HOURS (L.S.T.)

SPEED (KNTS) DIR.	1 · 3	4.4	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	*	MEAN WIND SPEED
N	3 3	1.6	2.3	2.6								9.4	9.0
NNE	7.3	1.5	3									4.2	3.8
NE	1.2	1.3										2.0	4,4
ENE	1.6	1.3	1.3									3.0	5.3
E		1.9	1.3	3_			I					3.5	6.4
ESE	1.3	leb	2.6	1.0	3			1				6.4	7.1
SE		2.3	1.7	1.0								5.2	7.9
SSE	1.0	1.7	5.2	5.8	. 6.							14.9	10.1
S	2.7	1. 7	5.2	5.5	1.3							17.4	10.2
SSW	1.3	1.5	• 7									3.5	4.3
SW	, 7	. š.		- 14								1.6	7.0
wsw		- 7	7									1.5	13.3
w	A fa			- 6	. 3							1.9	8.8
WHW		1.6		- 6	. 3							3.6	8,9
NW	-7	1.3	1.3	1.3	3							4.7	6.5
NNW	1.2	2.3	1.1	1.5								5.8	6.7
VARBL											·		
CALM	$\searrow$	$\times$	> <	$\times$	$\times$	> <	> <		$\supset$		> <	11.3	
	15.2	23.2	25.0	25.3	4.2	1.0						100.5	7.2

TOTAL NUMBER OF OBSERVATIONS 310

SMOS

AUS GPO 1984 741

### PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

<u>u '</u> a' <u>t</u>	LANGE TO	13-02		MAG
STATION	BRAN POLITATE		YEARS	MONTH
		ALL HEATHER		ALL
		CLASS		HOURS (L.S.Y.)
		COUNTYION		

SPEED (KNTS) DIR.	1 - 3	4 · 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥54	*	MEAN WIND SPEED
z	1.	1.7	2.00	1.0	• 4	• 1			Ĺ			7.8	3.7
NNE	. 3	1.	1.2	• 1		•						3.2	5.2
NE		. 0	• ^	• 1								2.1	5.4
ENE	• 9	1.	- is	• "1								2.8	5.3
ŧ	• 5	1.7	1.7	• 6	• 1							4.3	6.7
ESE	• 3	100	1.5	1.3	• ^							5.3	7.7
SE	• *	1. *	2.	1.5	• 1							5.5	8.3
SSE	1.	2.3	3.5	4.2	. 5	•						11.6	Ý.4
8	1.5	2.3	4 . 5	9.0	2.3	. 3						19.7	11.3
\$5W	1.:	1.3	1,7	1.2	. 2	, ,						5.7	7.4
SW	. "	• 5/2		. 4		• •						7.4	5.7
W\$W				• •	. 3							2.0	10.1
w		. 4	7	1.1	- 2	. ?						3 - 1	10.4
WNW		. 7	• ?	1.7	<u>, 6</u>	• 1						7.4	11.2
NW		, 7	1.2	2.0	- 2	1			<u> </u>	<u> </u>		4.5	10.6
NNW	. '4	2.2	2.	2.4	. 5	• 1			<u> </u>			4.4	9.4
VARSL													
CALM	$>\!\!<$	><	$>\!\!<$	$>\!\!<$	$>\!\!<$	$>\!\!<$	$>\!\!<$	$>\!\!<$	$>\!\!<$	$>\!\!<$	$>\!\!<$	5.7	
	12.5	20.5	25.6	28.1	5.6	1.0						100.0	9.5

#U.S GPO 1984.741 348/201

# SURFACE WINDS

## PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

STATION	CALLAS, TY STATION HAME	73-2 YEARS	4 P '5
		ALL WEATHER	OURS (L.S.T.)
	<del></del>	CORRECTION	

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	*	MEAN WIND SPEED
N	7	1.	1.	. 3								5.3	5.6
NNE	1.7	3	2.	3								•• ^	6.6
NE	7	1.0										1.7	4.0
ENE		1.0	1.						I			2.0	6,5
E	. 7	7	1.3									3.	7.0
ESE	1.2	2.7	2	- 3			T					6.3	6.1
SE	1. *	laJ	2.3	1.0	.7							6.3	5.6
SSE		1.7	4 . 7	5.7	_ 1							13.0	10.9
8	7 0	3.3	5.47	7.0	_1.1							21.3	9.5
SSW	4.7	2.3	1.0									8.0	4.4
SW	1.	3										1.7	2.8
wsw												3	5.0
*		7							Ĭ <u>.</u>			1.5	5.0
WNW	7	1.7	. 7	. 3								3.3	5.7
NW	1.7	1.0	1.3	1.0					l <u> </u>			4.7	6.5
MMM	1.7	2.7	. 7	. 7	. 3							6.0	6.4
VARBL													
CALM	$\supset <$	$\times$	$\times$	$\times$	$>\!\!<$	$>\!\!<$	><	$>\!\!<$	><	$>\!\!<$	><	12.0	
	17.0	24+0	24.7	17.3	3.0							100.0	6.6

MUS. GPO 1984 741-348/201

# SURFACE WINDS

## PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

CONTRACT TO STATE	CALLAS, TX	73-82	YEARS	AP II
		ALL WEATHER	<del></del>	HOURS (LET)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	*	MEAN WIND SPEED
N	1.3	2.	1.	1.7	, 7							7.0	6.7
NNE	1.0	1.0	1.5									3.7	4.9
NE	. 7	. 7		. 3								1.7	5.0
ENE		1.3	. 3									2.2	4.7
ľ		1.	• >									2.3	6.7
ESE	1.3	1.0										2.7	3.4
\$E	1.5	1.3	2.3	1.7								6.3	7.9
388	• 3	2.7	3.7	3.7	. 3							11.6	9.7
5	2.3	3.3	6.3	3.7	. 7						T	23.3	9.5
SSW	3.0	3.3	7.5	1.3								0.7	5.8
sw	7.3											2.3	2.3
WSW	1.7		. 7									2.0	3.5
w	• 3	1. 7	. 7									2.0	5.3
WNW		1.3	• !									1.7	3.8
NW	1.0	1.0	1.3	1.3	. 3				<u> </u>	<u> </u>		5.7	8.1
NNW	1.7	1.7	1.7									4.7	5.1
VARSE			, , , , ,									1	
CALM	$\times$	$>\!\!<$	> <	$\bigvee$	$\mathbb{X}$	$>\!\!<$	$\supset \subset$	$\supset <$	$\supset <$	$\supset <$	$\supset <$	13.7	
	19.3	72.7	24.0	18.3	2,5	. 3						100.6	6.4

TOTAL NUMBER OF OSSERVATIONS

300

#U.S. GPO 1984-741-348/201

## SURFACE WINDS

# PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

STATION	DALLAS, TA	13+62	YEARS	APR HONTH
		ALL HEATHER		DA HOURS (L.S.T.)
	<del> </del>	CORRETTION		

SPEED (KNTS) DIR.	1 - 3	4-6	7 - 10	11 - 16	17 - 21	22 . 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	*	MEAN WIND SPEED
Z _	1.2	143	2.0	1.3								8.0	7.0
NNE	1.3	- 3	.3	. 7	3					L		2.7	7.9
NE			,									7	7 . C
ENE	. 7	7	1.0						[			2.7	5 . D
£	ا عماد	1.0	1.7									3.7	5.5
ESE	1.0	1.3	2.0	• ?				I				I 5.5	7.0
SE	1.3	2.5	1.7	1.0								6.7	6.7
SSE	1.0	3.0	S.C	1.7		- 3						11.0	8.2
8	1.7	5.3	3.7	4.7								20.3	4.3
SSW	2.3	3. 3	2.3	- 3								8.3	5.6
SVY	4.5	. 7	• 3									5.0	3.1
wsw	. 3	7	. 7									1.3	4.5
	1.0	• 3	.7	• 3								2.3	5.9
WNW		2.0	1.7	1.3								4 • 3	¢.5
NW	. 7	1.3	1.	1.0								4.0	7.3
NHW	2.3	. 7	. ₹	1.3							1	9.3	5.3
VARBL												Ī	
CALM	$\supset <$	$\mathbb{X}$	$\mathbb{X}$	> <	$\supset <$	> <	$\supset <$	$\supset <$	$\supset <$	$\supset <$		12.3	
	14.7	24.3	22.0	14.0	. 3	. 3						150.3	6.1

#U.S. GPO 1984-741-348/201

# SURFACE WINDS

### PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

375°1	CALLAS. TY	73-42	A P D
STATION	EMAN MOITATS	YEARS	MONTH
		ALL WEATHER	29
		CLASS	HOURS (L.S.T.)
		CORPITOR	

SPEED (KNTS) DIR,	1.3	4-6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	*	MEAN WIND SPEED
N	7	1.3	2.0	1.7	.7							6.3	9.2
NNE	1.3	. 7	1.7	. 7								4.3	7.0
NE												.7	4.5
ENE	. 7	. 3	1	. 3								2.3	6.4
ę	1.7	. 7	2.	1.3					L	L		5.7	7.5
ESE	2	1.7	1.7	1.7								5.3	8.5
SE	*	1.7	3^	1.7		, 7			<u> </u>	<u> </u>		7.3	8.6
\$\$E	2.3	2.5	5.3	3.7	, 7							14.5	₹.9
\$	1.0	3 . 3	8.0	6,3	1.0							19.7	9.5
\$\$W	• 7	2.7	4.0	2,7					l	<u> </u>	ļ	10.0	5.1
SW	7	• 7	1.5									2.3	6.3
W\$W				, 7				[	L	İ	ļ	1.0	7.7
w	. 7	. 7	1.0%			• 3		<u> </u>	<u></u>			2.3	9.0
WNW			1.	1.3					ļ <u>.</u>			2.3	11.7
NW	2	. 7	1."	3.3	• 3				<u> </u>		<u> </u>	5.7	11.2
NNW	1.7	1.3	1.3	1.0	• 3							5.7	7.8
VARSL						L					<u></u>		
CALM	$>\!\!<$	$\times$	$>\!\!<$	$>\!\!<$	$>\!\!<$	$>\!\!<$	$>\!\!<$	$>\!\!<$	$\geq \leq$	$\geq \leq$	$\geq \leq$	5.0	
	13.0	15.0	34.0	26.3	3.0	7						100.0	6.3

1

## SURFACE WINDS

# PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

JA:	LAS. TY	STATIO	NAME			<u> 73-52</u>		<del></del>	YEARS				PE
			<del></del>	<del></del>	TI AL	ATHER				<del></del>		HOU	1.7 6 (65 %)
	- -				cox	IDITION				<del></del>			
SPEED (KNTS) DIR.	1-3	4.6	7 - 10	11 - 16	17 - 21	22 - 27	20 - 33	34 - 40	41 - 47	48 - 55	≥54	*	MEAN WIND SPEED
N	1	10.7	1.7	2.7	1.3							7.7	12.8
NNE	1.2	. 7	1.7	1.3								4.1	7.7
NE		1. ^	7									1.7	5.4
ENE	- 3	. 3	. 3									1.0	5.7
ŧ	7	1.3	1.3	. 3								3.7	5.3
ESE	7	1.5	2.0	1.0								4.3	6.1
SE		10.7	3.0	1.0								3.7	8.2
3\$E	1.7	1.7	6.7	5.7	. 7	3						16.7	9,9
8	1.2	2. '	9.3	13.0	2.3	. 7	L					26.5	11.2
SSW		3	1.5	2.3								4.3	11.0
SW		7	1.0	. 7	.3		l		<u> </u>			2.3	10.7
WSW		. 7				L				<u> </u>		.7	5.0
W		. 3	1.7	1.7	- 3			<u> </u>	<u> </u>	<u> </u>		4.3	12.1
WNW		103	3	1.3					<b></b>	Ļ		2.7	8.9
NW			1.7	2.0	.7					ļ	L	9.3	12.7
NHW	1."	1.0	2.3	2.3		L	L		ļ	<u> </u>	<u> </u>	7.0	8.6
VARBL	_L					L				<u></u>	L	<b></b>	ļ
CALM	$\geq \leq$	$\geq \leq$	$\geq \leq$	$\geq \leq$	$\geq \leq$	$\geq \leq$	$\geq \leq$	$\geq \leq$	$\geq \leq$	$\geq \leq$	$\geq \leq$	3.7	
			44. (1		. ,	. ,		1		1	l	100 0	2 6

TOTAL NUMBER OF OSSERVATIONS 300

MOS

G

# SURFACE WINDS

# PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

Q ♥ ₹ ₹ . ]	DALLAS, TA STATION HAME	73 - A2 YEARS	TO C
	ALL	SEATHES CLASS	HOURS (L.S.T.)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	*	MEAN WIND SPEED
N			1.*	2.3								4.	11.2
NNE		1.5	1.7	3								2.3	7.7
NE			1.0	. 7								2.5	9.2
ENE	, 7	. 7	. 7									2.0	6.0
ŧ	, ,	1.3	1.7	100								4.7	7.8
ESE	1.0	1.2	1.7	. 7	• 3							4.7	7.6
SE	1.3	2.7	3.3	1.3	• 3							9.	7.8
388	2.0	4, 7	7,7	7.7	• 3	. 3			<u> </u>	<b></b>		22.7	9.3
\$	7	1.7	8.0	P.7	1.3		• 3		<u> </u>	<u> </u>		20.7	11.C
\$\$W	7	. 7	107	1.0					<u> </u>			3.0	8.6
\$W_		• *		• 7						L	<u> </u>	1.0	9.7
W\$W_	•				• 3	. 3				L		1.3	14.7
W		1.5	1.0	1.0				<u>[</u>	<u> </u>	<u> </u>		3.7	5.4
WNW	. 7	. 3	107	1.7	. 3						L	4.7	9.4
NW		1.7	1.11	2.7						<u> </u>		5.3	9.3
HNW	3	. 3	3.7	3.7					L		L	8.3	10.5
VARSL									L		<u> </u>	1	
CALM	$>\!\!<$	$\times$	><	$>\!\!<$	$>\!\!<$	$>\!\!<$	$>\!\!<$	$>\!\!<$	><	$\geq \leq$	$\geq \leq$	2.3	
	5.5	17.7	34.7	33.3	3.0	,	- 3					100.0	9.2

TOTAL NUMBER OF OBSERVATIONS 300

# SURFACE WINDS

### PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

7 7 1	JAL 135 - Ta	72-82		APC
STATION	BEAN NOITATE		YEARS	N P JA GA
		ALL SEATHER		16
		CLASS		HOURS (L.S T. I
	<del></del>			
		COMPLYION		

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	*	MEAN WIND SPEED
N	. 3	1.7	3.	1.7								6.7	8.3
NNE	1.7		2.3	3.				[				5.3	6.6
NE												. 7	17.0
ENE		7	7	- 3					l			1.3	7.5
ŧ	1.7	2.0	2.0	3								6.3	5.3
ESE	1	2.5	3.7	7	7		}		L			8.:	8.3
SE		1.0	7.0	۲ بو	-3							12.7	9.8
SSE		7.7	5.3	5.3	1.0							16.3	10.1
5	1.2	4 . 7	7.7	4.3	3							18.0	P . 8
SSW		. 7	. 7		. 3							1.7	8.2
SW		7	3	- 3								1.2	5.5
WSW		,		- 4								.,	9 . 5
W		7		7								1.0	5.3
WNW		1.2	1.3	1.3	- 3							4 . (	10.1
NW	7		7.3	7								h of	a,7
NNW	• 1	2.7	2.3	1.7								7.0	8.1
VARBL													
CALM	><	><	><	><	><	><	><	><	$\supset <$	$\supset <$	$\times$	3.3	
	7.7	23.3	39.0	23.3	3.7							100.0	8.9

TOTAL NUMBER OF OSSERVATIONS TOTAL

SMOS

US GPO 1984-741-346

# SURFACE WINDS

### PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

3703;	CALLAS. TY	75-82		4P0
STATION	STATION HAME		YEARS	RYMON
	<del>-</del>	ALL WEATHER		21
		CLASS		NOURS (L.S.T.
	<del></del>			

SPEED (KN75) DIR.	1.3	4.6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	*	MEAN WIND SPEED
N	• 7	2,7	1.7	1.7								6.3	7.5
NNE	i • 7	1.1	1.7									4.3	5.2
NE		, 7										3.1	3.3
ENE	1.7	1.3	• 3									3 . 3	4.2
ŧ		2.7	2.0	• 7	. 3							7.3	5.9
ESE	1.7	2.7	7 . ?		7							7.	6.2
SE		5.0	6.0	3.7	. 3							15.0	8.1
352	2.	4	7.7	2.3	7							17.5	7.9
_ \$	2.3	3.	400	2.7	1.3			Ĭ				14.0	20 6
\$\$W	. ?			. 3								1.3	5.5
SW			I										4.0
WSW	3											• 3	2.0
W		1.1	7										5 . 3
WNW	. 7	, 7	1	. 7								2.7	4,1
NW	- 3	1.7	1.0	3								3.3	6.6
MMW	1.5	1.7	1.3		. 3							4.3	6.5
VARBL													
CALM	$\times$	$\times$	$>\!\!<$	$\times$	$\times$	$\times$	$\times$	> <	><	$\supset <$	> <	7 . !	
	17.0	22.0	29.3	12.0	3.3							100.0	6.5

TOTAL NUMBER OF OBSERVATIONS

300

SMOS

XUS GPO 1984 741:34

# SURFACE WINDS

## PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

STATION	TATION HARE	7.7 + 5.5 YEARS		AP C
		ATHER	<del></del>	HOURS (L S T
		REITION	<del></del> _	

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	*	MEAN WIND SPEED
N		1.5	1.7	1.6								ۥ?	<b>a</b> • 3
NNE			1.3	5								3.7	6.6
NE				2								1.5	5.7
ENE		. A	. [	- 1				}				2.1	5.7
E	1.0	1.3	1.5	- 5							-	4.5	6.4
ESE		1.7	7.0	- 6	- 2							5.4	7.1
SE		2	3.0	1.0	• 2							9.7	9.3
SSE	1.5	2.7	3.7	4.6	. 5	. 7						15.2	2.4
5	1.0 "	٦.٠.	7.5	5.5	3.45	- 1	• .					30.4	6.6
SSW	1	1.7	1.4	1.0								5.:	6.8
SW		. 4	. ;	- 2	3							2.0	5.3
wsw	1	• 2	. 1	- 1	. 17	.~						ং	5.5
W		. 7	-	. 4		• 3						2.3	5.1
WNW		1.	. 7	1.0	• 1							3.2	£.7
NW		1.0	1 4 7	1.5	4.2							4.1	4.9
NNW	10.7	1.5	1.7	1.3	• 1				i			5.0	7.6
VARBL													
CALM	$\supset \subset$	$\times$	>>	$\times$	$\times$	$\times$	>	$\times$	>>		> <	7.4	
	11	21.2	31.1	22.1	3.0	<u>.</u>	• ?					100.0	7.6

TOTAL NUMBER OF OBSERVATIONS

2400

6

# SURFACE WINDS

# PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

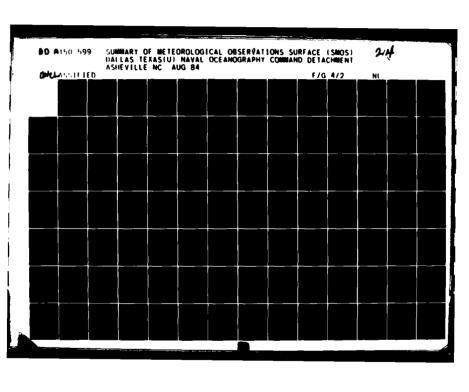
STATION STATION NAME TABLE TO STATE TO

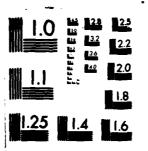
SPEED (KNTS) DIR.	7 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	*	MEAN WIND SPEED
N		1.	1.	• 3						<u> </u>	<del></del>	2.5	Ξ,
NNE	1.	. 1										2.3	5.
NE		1.										1.5	4.
ENE		1.					, , ,					1.5	4.
ę.	1	100	. 45				i					3.5	5.
ESE	1	1.	2.7									6.	7,
SE	1.7	3.5	3.5	1.2				]			i	17.3	7,
352	1.	4.5	44 15	2.9	• 6								٠.
3	7.	6.1	9.7	5.5								25.5	7.
SSW		1.5	• 3	. 5						1		5	4.
sw	1.	20.											2.
wsw	1 .										i	1.	2.
w	1	5	• *									1.	7.
WWW	1.			• •								1.	
NW	1.	1.0	1.	•/								7.	5.
NNW	,	1.2	• 1	•								3.	•
VARBL										!			
CALM	$\supset <$	$\boxtimes$	$\times$	$\times$	> <	$\times$	$\times$	$\geq$	> <	$\times$	$\geq \leq$	100	
	20.5	26.01	24.5	15.5	1.3	,						11.00	5.

TOTAL NUMBER OF OSSERVATIONS

7.1

SMOS





MICROCOPY RESOLUTION TEST CHART

# SURFACE WINDS

## PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

STATION	CALLAS. T STATISM NAME	73-82 YEARS	MAY
	ALL VI	ATHE?	00 3 000 ( (, s. v. )

SPEED (KNTS) DIR.	1.3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥54	*	MEAN WIND SPEED
N	1.0	2. 1.	1.9	1.0								6.5	5.4
NNE	4	2										2.3	5.0
NE		3	43	I	. 3							1.6	7.6
ENE		1.7	. 6	4.3								2.9	6.8
E		_ ^ 3	1.5	1					1	1		2.3	7.0
ESE		1.6	a.e.	1.3		. 3	7					4.5	5.4
SE	1.3	1.6	3.2	4.3			1					6.5	5.2
\$\$£	1.6	7.6	3.9	1.3								9.4	7.1
3	2.5	7.4	12.3	4 . 8								27.4	7.8
SSW	3.5	2. 9	2.3	- 43								9.0	9.5
sw	1.6	• 3	.3						i			2.3	3.1
W\$W	ı fı											.6	2.0
w	4.3	• 3		.6								1.3	7.3
WNW	. 6	. 5		.6								1.9	6.7
NW	• 3	1.9	2.6		• 3		<u> </u>			1		5.2	7.4
NNW	3.6	1.0										4.2	3.8
VARBL										<b> </b>			
CALM	$\times$	$\times$	$\mathbb{X}$	$\times$	$\times$	$\times$	$\times$	$\times$	$\supset \subset$	$\supset$		12.3	
	19.0	26.5	30.3	11.0	. 6	4.3						100.0	5.8

TOTAL NUMBER OF OSSERVATIONS

310

#US GPO 1984:741:348/201

## SURFACE WINDS

### PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

+70 1	SALLAS, TX	73-*2		MAY
STATION	STATION HAME		YEARS	MONTH
		ALL WEATHER		36
		CLASS		HOURS (L.S.Y.)
		Charles	<del></del>	

SPEED (KNTS) DIR.	1.3	4-6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	40 - 55	≥56	*	MEAN WIND SPEED
N	2.0	1.3	. !	.3								4.8	9.1
NNE	2.4	ί	1.0	. 6								4.8	5.1
NE												. 3	14.0
ENE			4									1.3	5.5
ŧ	7	1.6	. 5	- 3								2.9	5.9
ESE	1.4	2.3	3									4.2	4.8
¥	3	2. 9	2	1.3								6.5	7.4
35£	1.0	4.5	4.5	1.9								11.9	7.3
\$	1.3	9.1	9.7	3.5								22.5	7.4
SSW	7,3	1.5	1.5	.6								6.8	5.1
\$W	•6	• ¢										1.4	3.3
WSW	t								I			•é	1.5
w	.6	9	•	• 3								2.3	6.3
WHW	1.5		3									1.9	3.2
NW	1.5	1.0	1.5	- 6								3.3	7.0
NNW	2.3	1.6	1.0	. 6								5 . 5	5.3
VARSL													
CALM	$>\!\!<$	><	$\times$	$\times$	$\times$	$\searrow$	> <	><	> <	$\times$	>>	18.7	
	20.3	26.8	23.9	10.3								100.0	5.1

TOTAL NUMBER OF OSSERVATIONS

310

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#U.S. GPO 1984 741-348/201

## SURFACE WINDS

### PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

2 3 Q 1	CALLAS. T.C. STATTON HARE	73-82 YEARS	MAY BOATH
	AL-L	EATHER CLAM	NOUNS (L.S.T.)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	20 - 33	34 - 40	41 - 47	40 - 55	≥54	*	MEAN WIND SPEED
N	. (	1.0	146	1.3								4.5	7.9
NNE	6	2.9	- 6	- 3				Ĺ		L		4.5	5.5
NE		1.3	3									1.5	5.6
BNE		1.3	- 6							I	l	2.3	7.1
E .	leti	1.3	2.5					L				5.1	6,3
ESE	1.3	7.6	las	. 6	3		l					6.5	6.6
<b>\$£</b>		1.5	2.3	. 3							L	4.2	7.1
388	2.5	2.9	5.5	1.9			<u></u>				ļ	13.3	7.1
8	1.3	3.9	13.9	13.4	6				<u> </u>	<u> </u>	L	29.8	9.5
35W		1.0	2.3	1.0	. 5							5.2	9,5
SW	1.3	-3					ł					106	3.4
WSW		. 3	<u> </u>				<u></u>		L				3.0
w		. 6	1.2						<u> </u>	Ĺ		1.6	7.0
WNW		. 3	1.7	. 3						<u> </u>		1.5	8.2
NW	3	1.0	. 6	1.9								3.9	9.3
NHW	• 5	1.6	1.0	1.9						L		5.2	7.4
VARBL										L			
CALM	><	$>\!\!<$	$\times$	$>\!\!<$	$>\!\!<$	> <	$>\!\!<$	$>\!\!<$	$\geq \!$	$>\!\!<$	$\geq \leq$	7.1	
	12.0	23.3	35.3	20.1	1.6							100.0	7.3

TOTAL NUMBER OF OSSERVATIONS

# SURFACE WINDS

### PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

27951	DALLAS, TY	73-52		MAY
STATION	STATION NAME		YEARS	MONTH
		ALL WEATHER		12
	<del></del>	CLASS		HOVES (L.S.T.)
	<del></del>			

SPEED (KNTS) DIR.	1.3	4-6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	40 - 55	≥56	*	MEAN WIND SPEED
N	• 5	1.5	1.3	1.6								5,5	7,9
NNE		2.3	• 3	. 3			L					3.5	5,6
NE	7	1.5										2.3	6,3
ENE	• 3	. 3	1.0%	• 3		l						1.7	7.0
	1.6	1.3	1.5			[						3.9	5.1
282	1.3	1.0	1.7									4,2	6.2
SE	1.3	2.3	2.6	• 6				<u> </u>				6.5	6,9
252	1.3	5.2	8.4	4.2								19.0	8.2
8	2.3	5.5	9.4	11.0	• 3			I				28.7	9.2
\$\$W			7.4	1.3			[					4.2	9.4
SW	- 3		•6	. 3								1.3	8.5
W\$W	• 3	1.0	. 3	. 6								2.3	5.7
w	• 3	. 5	1.0									1.9	6.7
WHW		• 3	. 6.	. 6								1.6	9.6
NW		1.1	1.0	. 6				I	I			3.2	7.5
MMW	- 5	1.9	2.6	1.3	4.3							6.9	7.8
VARSL													
CALM	$\bowtie$	$\times$	$\times$	$>\!\!<$	$\boxtimes$	> <	$\boxtimes$	$\geq \leq$	$\boxtimes$	> <	$\geq <$	2.9	
	11.6	26.3	34.8	23.2	6							100.0	7.8

TOTAL NUMBER OF OSSERVATIONS

# SURFACE WINDS

### PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

STATION	DALLAS, TX		YEAR	MAY WITH
	····	ALL WEATHER	12	15
		CLAS		HOURS (L.O.T.)
		COMPLYION		

SPEED (KNTS) DIR.	1-3	4-6	7 - 10	11 - 16	17 - 21	22 · 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	*	MEAN WIND SPEED
N	. 3	3	1.9	1.3								3,0	8.8
NNE	3	1.9	1.3									3.2	5.7
NE		Lel	3	.3				L				2.3	6.3
ENE	• 7	. 3	1.0	. 3								1.9	8.3
	143	1.9	1.3	. 6								3.2	6.4
256		2.1	1.9	.3		. 3				L		5.2	7.9
SE	<b>a</b> £5	4.2	5.5	2.5								12.9	7.8
SSE	1.6	3.2	8.7	3.5	3							17.4	8.5
\$		4.2	Cal	11.3				L			L	23.5	9,6
SSW	1.2		1.9	1.0				L				4.3	6.9
SW_					-3		Ĺ	<u></u>		L		1.0	9,7
W\$W			. 7	- 4								1.0	11.7
			1.1	1.0			L			L		2.9	9,0
WWW		1.3	1.0									3.2	5.6
NW			- 65	6	3			<u> </u>		<u> </u>		2.3	10.3
NHW	3		2.6	2.3	3					L	L	6.1	10.3
YAROL											L	<u> </u>	
CAUM	$>\!\!<$	$>\!\!<$	$>\!\!<$	$\times$	$>\!\!<$	$>\!\!<$	$\geq \leq$	$\geq \leq$	$\geq \leq$	$\geq \leq$	$\geq \leq$	3.2	
	7.4	23. 9	37.7	26.1	1.3	. 3						100.0	2.2

TOTAL NUMBER OF OSSERVATIONS

# SURFACE WINDS

### PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

DALLAS. TX 73-82 ALL WEATHER

SPEED (KN73) DIR.	1.3	4.6	7 - 10	11 - 16	17 - 21	22 - 27	26 - 33	34 - 40	41 - 47	40 - 55	≥#	*	MEAN WIND SPEED
N	1.6	1.9	1.7	1.6	. 3							6.5	7.7
NNE	1.7	1.0	1.7	. 3								3.5	5.5
ME	. 3		1.0									1.6	6.0
BHE		. 6	1.7									1.6	7.2
ŧ	4,	2.5	3.5	. 6								7.4	6,7
ESE		1.5	3.9	.6						L		6.5	8.0
SE		2.9	7,7	1.9								12.6	8,2
25E	• t	2.9	9.4	5.5	. 3							18.7	8.9
8	2.3	4.3	8.1	5.2								20.3	8.2
SSW	3	1.5	3									2.4	4.7
\$W			1										5.0
W\$W													5.0
*	. 3		1.0	3								1.6	8.2
WWW	1.0	. 3	1.0		L							2.3	5,4
NW		1.3	1.3	- 6	l							3.5	7.6
MMM		1.3	2.9	1.3	L				I			5.8	1,6
YARR										L			
CALM	$\times$	$\times$	$\times$	$\times$	$>\!\!<$	>>	$>\!\!<$	><	$>\!\!<$	$>\!\!<$	>>	4.5	
	3.7	23.5	99.5	18.1	. 6							104.2	7.5

TOTAL NUMBER OF OBSERVATIONS

310

# SURFACE WINDS

### PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

STATION	DALLAS, TX STATION HARE	73-82	HARF	MAY MONTH
	ALL	WEATHER COM	<del></del>	HOURS (L.S T.)
		<b>600017:00</b>	<del></del>	

SPEED (KNTS) DIR.	1-3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	26 - 33	34 - 40	41 - 47	48 - 55	≥54	*	MEAN WIND SPEED
N	2.3	1.0	2.3	. 6								6.1	6.1
NNE		1.6	- 3	1.0								3.5	7.1
NE	1.6	1.0		L					L	<u> </u>		2.5	2.9
ENE	1.0	. 6	. 3									1.5	3.7
3	1.9	2.9	1.6								Ĭ	6.5	5.1
636	1.3	3.2	3.2	. 3								8.1	6.4
SE	1.0	3.4	6.5	1.9					L			18.7	6.8
\$56	3.2	3.8	7.1	4.2	3							16.7	7.0
\$	2.0	4.5	3.2	2.9								13.2	6.9
\$5W	1.1	- 6				[			I			1.0	3.0
5W													
wsw	. 3	. 1										. 6	4.0
w	1.0	3										1.3	3.5
WHW		. 7	. 3	. 3								1.0	8.3
NW	1.3	. 6	1.6	1.0								4.5	7.0
MMW		1.07		. 3	. 3							2.0	7.9
VARBL													
CALM	$\times$	$>\!\!<$	>>	$\supset <$	>><	$\times$	><	$\triangleright <$	$\supset <$	>>	$\supset <$	8.7	
	20.3	31.5	26.5	17.6	6							100.0	6.C

TOTAL NUMBER OF OBSERVATIONS 315

SMO1

MUS. GPO 1984 74

## SURFACE WINDS

# PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

) TO 1	CALLAS, TX	73 = 52	М А У проти
	<del></del>	ALL MEATHER	ALL MOURS (LST)
		COMPLETION	<del></del>

SPEED (KNTS) DIR.	1.3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	46 - 55	≥ 56	•	MEAN WIND SPEED
N	1.	1.3	1.6	1.5	• n							5 • 3	6.8
NNE	1.0	1.5	. 6	. 4								3.5	5.7
NE	ا ذه	. 5	• 2	.1	• )							1.7	5.6
BNE		• *	. 7	• 2								2.5	6.3
E	1.1	1.7	1.5	. 4								4.9	t . 1
ESE	1.0	2.1	2.1	.5	.0.	1						5.7	<b>€.</b> ♥
34	- 5	3.3	4.2	1.3	•1							9.8	7,3
352	1.7	3.7	6.5	2.2	• 2							15.3	8.0
\$	2.	5.7	9.2	6.9	•1			I	I			23.9	2.4
SSW	1.5	1.3	1.5	.6	• 1							4.9	6.0
SW	. 7	• 3	.2	3.	. 0	[		i ———				1.5	4.5
WSW	- 19	• 2	•1	• 2								÷	5.1
w	. 3	. 4	.6	• 3								1.7	7.5
WNW	5	• 5	•5	• 3								2.5	6.4
NW	. 6	1.1	1.2	ŧ.	• 1							3.8	7.7
NNW	٠٠	1.5	1.4	. 9	.1							4.9	7.4
VARBL								]					
CALM	$\bowtie$	$\times$	$\supset \subset$	>>	>>	>>	$\supset <$	$\supset <$	$\supset <$	><	$\mathbb{X}$	3.5	
	14.0	26.3	32.3	17.1	. 5	.1						100.0	6.7

TOTAL NUMBER OF OBSERVATIONS 2479

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IS. GPO 1984-741-348/201

# SURFACE WINDS

#### PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

STATION .	CRLLAS. TX STATION MAR.	7 T = 6 2	JUN
		ALL MEATHER	DO HOUSE (C. C. T. )
		CONDITION	

SPEED (KNTS) DIR.	1-3	4-6	7 - 10	11 - 16	17 - 21	22 - 27	20 - 33	34 - 40	41 - 47	48 - 55	≥54	*	MEAN WIND SPEED
N	1.0	10.7	1									3.0	4.9
MME	1.3	1	.3									2.7	3.3
NE		1.0						I				1.7	5.8
ENE	1.7	1.3		}			I		T			3.5	4.1
	1.7	3.	• •									3.0	4.1
ESE	. 7	3.3	3.0	.3								7.5	6.5
SE	.1.17	4.0	3.7	. 3								9.C	6.4
\$\$£	3.7	Z . 7	5.7	3.0	- 3							14.3	8.2
\$	3.7	9.1	15.7	6.7								35.3	7,8
SSW	4.3	1.7		7	• 3		T					7.3	5.0
sw	1.0						I					1.0	1.3
wsw	. 1	7			• 3							1.0	8.3
w		• 3										• 3	6.0
WNW	• 1		•									• 7	5.0
NW	. 7	. 3	• 3									1.3	4.5
NNW	. 7	. 7		• 1	• 3							2.:	7.3
VARBL													
CALM	$\supset \subset$	$\times$	$\supset <$	$\supset <$	> <	$\times$	$\supset <$	$\supset <$	><		><	5.7	
	21.2	29.7	30.7	11.7	1.3		1		1			130.0	6.0

TOTAL NUMBER OF OSSERVATIONS 300

**SMO8** 

#### SURFACE WINDS

#### PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

37901	PALLAS, TR	73-62		JUN					
STATION	STATION HARK		YEARS	HONTH					
	ALL WEATHER								
		CLASS		HOURS (L.S.T.)					
	<del></del>	Address .	<del></del>						

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	26 - 33	34 - 40	41 - 47	48 - 55	≥56	*	MEAN WIND SPEED
N	1.7	1.7	. 7									4.0	4.3
NNE	. 7	1									L	1.3	5 . C
NE	1.3	, 7										2.0	3.2
ENE	. 7	• 7							I			1.3	••0
•	1.3	2.3									i	الروبة	4.9
ESE	. 7	2.3	2.									5,0	5.0
SE	1.3	2.3	• 3	,,,						T		4.7	7, 9
35E	. 7	2.7	3.3	2.3	. 3							9.7	7 . t
\$	2.7	R. 3	15.3	12.3	• 3							17.0	8.7
\$5W	5.3	4.3	2.5	1.0								12.7	4.6
SW	•	• 7						<u> </u>				1.0	3.7
wsw	• 5											.3	2.0
w				T								• 3	2.0
WNW		• ?			• 3							1.3	8.0
NW	• 3	• 3			• 3				T		i	1.0	9.0
NNW	1.7	. 7	.7	.7								3.3	6.0
VAROL													
CALM		$\times$	> <	> <	$\times$	> <	>><	> <	> <	> <	$\supset <$	11.1	
	12.3	28.0	24.7	15.3	_ 1.3							170.0	6.2

SMOS

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4

#### SURFACE WINDS

#### PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

STATION	STATION HAME	73-8: YEARS	ыў ц напон
		ALL WEATHED	moute (L.s.t.)
		Codertion	<u> </u>

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	40 - 55	≥ 56	*	MEAN WIND SPEED
N	•	143										1.7	4 , 5
NNE		2.0										2.3	4.
NE	7	3	. 3									1.3	4.
ENE	1.	1.0										2.3	3.0
E	1	2.0	7									3.7	4,9
ESE	2.0	1.3	1.3	3								5.0	3.7
SE	1.7	1.3	1.7	. 3								5 • 0	5.
SSE	1.7	3.3	2.7	1.3					I			9.7	5.
\$	1.7	6.3	17.0	5.3		7						72.3	ě.
SSW	7.7	5.0	2.3									11.7	5.
SW	1.7											1.7	2.
wsw_	2.0	1. "							I			3.7	5.0
*	• 1											• 1	2.
WNW			ز و	. 3								• 7	11.
NW		1.7		3	. 3							2.3	€.
NNW	7.7	. 7		3								4.3	7.0
VARBL													
CALM	$\supset \subset$	> <	$\times$	$\times$	> <	$\supset <$	><	><	><	$\supset \subset$	><	13.7	
	21.3	29.0	26.3	9.0	. 3	. *						100.2	5.

TOTAL NUMBER	Of	OSSERVATIONS	2	מי
				'u

#### SURFACE WINDS

#### PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

~; ;	CALLIS. T.	73-87	<b>J</b> ∪%
STATION	STATION HAME	YEARS	HONTK
		ALL MEATHER	U9
		CIA96	HOURS (L S T -
		COMPITION	

SPEED (KNTS) DIR.	1 - 3	4 · 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	*	MEAN WIND SPEED
N	•	1,	1.2	• 3								4.	6.6
MME	,	1.	1.									3 •	5.2
ME	. 7			. 7								7.7	5.6
ENE	• ,	₹•								l		2.7	4.5
ť		,	1									3.0	* . 6
252		10?	• *									3 ⋅ 0	4 . 6
SE	1.0	1.3	1.	. 7		<u></u>						4.0	5.3
SSE		2.7	2.1	1.0	1.0							7.	8.2
	٠,٠	۲, و	17.7	15.0	• 7	• !						42.5	9.7
35W	•	7.	5.7	2.7								11.7	9.4
SW	• ,	1.7	2.7		• 7							4.7	7.6
WSW	• 7											• 7	2.0
w		,		L								1.0	4.0
WHW	,			L								i	3.3
NW	- 7	• 7										1.	3.5
NNW		• 3	• •	. 7								2.3	9.5
VARBL										L			
CALM	><	$>\!\!<$	$>\!\!<$	$>\!\!<$	$>\!\!<$	$>\!\!<$	$>\!\!<$	$>\!\!<$	$\geq \leq$	$>\!\!<$	$>\!\!<$	5.3	
	1 . 3	24.3	35.0	21.3	1.7	1						100.0	7.6

TOTAL NUMBER OF DESERVATIONS

300

SMOS

#US GPO 1984 2

# SURFACE WINDS

#### PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

STATION	DALLAS, TV STATION NAME	73-82	YEASS	JUN:
	<u>M.L</u>	WE & THER CASE		12 HOURS (L.B.Y.)
		COMPLYING	<del></del>	

SPEED (KNTS) DIR.	1.3	4.6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥54	*	MEAN WIND SPEED
N	1	2.3	24.	2								5.7	6.2
NNE	7	2.5										2.7	4.1
NE		1.2	1.3					L				3.5	6.3
ENE		. 7							I		_	1.7	4.7
ŧ	3.0	1.7										5.0	3.6
ESE	1.7	. 3		. 3								3.5	4.9
SE	107	1.3	1.0			. 3						4.:	5.0
SSE	3.0	4.7	5.3	2.0	1							15.3	7.1
5	1.7	5.7	17.7	15.7	1.5							42.0	9.9
\$5W	1.1	2.3	2.7	1.2								7.3	7.0
SW		100										1.3	6.5
wsw	1.00	• 7										1.7	3.0
w	7	. 3	. 7									1.5	4.3
WNW	7	. 3							I			1.0	5.0
NW	1.0	• 3	. 3									1.7	3.4
NHW	- 3	• *	1.7						I			7.7	7.1
VARSL													
CALM	$\supset <$	> <	$\supset <$	><	><	> <	><	$\triangleright <$	$\supset <$	><	><	1.0	
	12.0	25.3	33.7	20.0	1.3	. 7			1			1 '0.2	7.6

#### SURFACE WINDS

# PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

<u> </u>	BALL	S. Ix	STATIO				73-82			YEARS				UN
-						ALL =[	ATHER		<del></del>	- <u>-</u>				15 11.87 1
						CON	1917700							
{	SPEED (KNTS) DIR.	1 - 3	4-6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 54	<b>S</b>	MEAN WIND SPEED
1	N	1.3	1.7	1.5			<del> </del>	<del> </del>					4.0	4.9
1	NNE		?. ?	.7									3.3	5.3
1	NE	. 7	. 7	1.									2.0	5.8
İ	BME	, ,	1.7							1			2.3	4,9
1	į	1.	2.3	• •			<u> </u>						4.0	4.8
1	183	1.0	1.3	2."	• 3					1			4.7	6.4
1	SE	1. ?	2.3	1.5	• 3								5.3	5.6
1	SSE	1.7	4.7	7.3	4.0								17.7	8.0
Ī	\$	1."	9.	16.	12.2	2.3							41.0	9.4
- [	\$5W	1	. 7	1.7	1.3	. 3							4.3	9.2
- [	SW	• 2		4.3									7	5.5
ľ	WSW		7										1.0	4.3
1	w												7	2.5
Ţ	WWW			• 7									10.3	6.6
- 1	NW		7.										1.3	5.5

TOTAL HUMBER OF OSSERVATIONS 570

3.3 190.0

7.5

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US GPO 1984 741 348/2

# SURFACE WINDS

#### PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

STATION	CALLAS. TY STATION HAME	73-8: YEARS	JUN MONTH
	M.L. VE	THES.	19 noons (1 + 7 )
	Comb	THE	

SPEED (KNTS) DIR.	1.3	4-6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	*	MEAN WIND SPEED
N	. 3	2.0	. 7	1.0								4.0	7,
NNE	1.2	1.3	. 7	. 3								3.7	5.7
NE	. 3	1.7					Ĺ			İ		2.5	6.0
ENE	. ,	1.3	. 7									2.7	5.0
ŧ	1.7	4.7	2.	_ 3								6.7	5.0
383	1.5	1.3	2.1	1.3								6.3	7 .
SE	1.3	44.0	4.7	. 3			I					10.3	6.
332	7	2.7	9.3	5.7	- 3							19.7	7.
\$	2.2	2.6	13.0	9.0	3							73.3	3 .
SSW	. 3	1.5	. 7	. 3								2.0	6.
SW												, 7	3.1
WSW		. 1										3	4 .
w													
WNW													
NW		. 3										3	5
NNW	1.7	1.7		. 3								3.7	4.
VARSL													
CALM	$\supset \subset$	> <	$\times$	>>	> <	><	$\triangleright <$	$\triangleright <$	><	><	$\geq \leq$	2.3	
	11.7	31.7	34.0	20.0	. 7							100.0	7,3

TOTAL NUMBER OF OBSERVATIONS

370

#### SURFACE WINDS

#### PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

STATION	DALLAS TY STATEM MANE	73-82	AEVUE	JUN
	ALL	WEATHER		21
		¢LA99		HOURS (L.S.T.)

SPEED (KNTS) DIR.	1 - 3	4-6	7 - 10	11 - 16	17 - 21	22 - 27	26 - 33	34 - 40	41 - 47	48 - 55	≥56	%	MEAN WIND SPEED
N	1.3	1.3	• 7									3.3	4.3
NNE	. 3	1.0	. 3									1,7	4.5
NE		1	1					I				2.3	5,6
ENE	2.3	1.3	. 3						l			9.0	3,8
ı	1.7	40.55	7	. 3		L						5.7	5.7
225	1.7	5.7	9 0	1.5								12.3	6.2
3.0	1.3	5.3	0 3	2.0					L	L		18.7	7.2
\$84	7.0	5.7	10.0	4 7	. 3				l			22.7	9.2
\$	3.7	7, ^	0.7	2.0			<u> </u>		<u> </u>			19.3	6.2
\$5W	1.5							ļ			<u> </u>	1.7	2.4
\$W	3						L		l	L		• 3	1.0
WSW						L			<u> </u>			<u> </u>	
w									<u> </u>			• 5	3.0
WNW					<u> </u>	L				<u> </u>		<b></b>	
NW		. 3						<u> </u>	L			.7	3.7
MMW	1.3	• 3									L	1.7	\$.2
VARSL							L						
CALM	><	$>\!\!<$	$>\!\!<$	><	$\geq <$	$>\!\!<$	$>\!\!<$	$\geq <$	$\geq \leq$	$\geq \leq$	$\geq \leq$	4 • 3	
	19.5	34.3	33.0	10.0	.3							190.0	6.1

TOTAL NUMBER OF OBSERVATIONS 300

SMOS

#### SURFACE WINDS

# PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

TAYING	SALLAS Y F STATISH MADE TEAMS	JUN
	ALL HEATHER COMME	ALL HOURS (L.S.T.)

SPEED (KNTS) DIR.	1 - 3	4-6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	40 - 55	≥56	*	MEAN WIND SPEED
N	1.2	1.7	17	- 2								3.7	5.6
HHE		1.2		2						L		2.3	4.8
NE		1.1										2.2	5,4
ENE	1.2	1.2	• ?									2.4	4.2
1	1.5	2.5	7	1								5.0	4.8
ESE	1.2	2.1	2.1	4.5							]	5.9	5.1
SE	1.3	2.2	2.2	- 6		• 5						7.6	6.5
556	1.7	3. L	5.7	3.1								14.4	8.2
\$	2.5	7.7	15.3	9.5	5	. 1						35.3	4.6
SSW	2.2	2.2	1.7	1.0	.1							7.3	6.2
SW	. 5	• 5	• 3	• r,	0							1.4	5.7
WSW		. 4			• 2					I		1.0	3,8
w		• 2	• 7	Ţ								. 3	3.6
WNW	1	. ?	. 2	• 1	•0							.7	6.7
NW	, is	• 5	• ?	• 7	.1			1				1.2	5.7
NNW	1.1	• 3	-5	. ?	• 3							2.5	5.7
VARSE	1							1		1			
CALM	$\supset \subset$	$\times$	> <	> <	$\supset <$	> <	> <	$\supset <$	$\supset <$		$\supset <$	5.7	
يني النوا	15.6	29.0	31.5	15.7	1.2	. 2			1			170.0	6.8

TOTAL NUMBER OF OSSERVATIONS

#US. GPO 1984-741-348/201

#### SURFACE WINDS

# PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

779 ]	CALLAS, TI	73-40	YEARS	JUL HORTH
STÄTION	AL	STATES		OC MOURE (L.S.Y.)

SPESD (KNTS) DIR.	1.3	4.6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	*	MEAN WIND SPEED
N		. 3										1.3	4 • 5
HHE	1.2							<u> </u>				1.5	2.7
ME	10.3											1.3	2.5
ENE		1.3							l			1.9	4.6
t _	let	let	1.									4.5	5.2
389	1.	2.5	1.9					L				5.8	5.6
\$2	7 3	3.6	3.2	.6								9.7	5.6
\$\$E	1.9	6.5	3.1	1.9								18.4	7.1
8	3.6	13.1	13.5	1.6					L			36.9	6.3
\$\$W	2.9	2.6	loÿ					L		L		7.4	4.7
\$W		. 3							l	L		• 6	2.5
WSW													
W										L			
WNW									L	L			
NW			- 3									•6	6.5
NWW												• 3	K.0
YARBL													
CALM	$\bowtie$	$>\!\!<$	$>\!\!<$	><	$>\!\!<$	$>\!\!<$	$\times$	$>\!\!<$	$>\!\!<$	$>\!\!<$	><	9.7	
	17.2	37.2	30.7	4.5								100.0	5.4

TOTAL NUMBER OF OSSERVATIONS

2040

S. GPO 1984-741-348/

# SURFACE WINDS

# PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

STATION	CALLAS, T/	73-82	YEARS	JUL
		SEL WEATHER		HOUSE (L.S.T.)
		COMPATION		

SPEED (KNTS) Dift.	1 - 3	4-6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	*	MEAN WIND SPEED
N	1		.3									. 6	6.5
NNE			- 3									1.0	5.3
NE	3	. 3			. 3							1.0	7.7
ENE	1.3	. 6										1.7	2.8
E	4.5	1.0										1.5	3.6
ESE	1.0	٤,	1.3									2.9	5.2
SE	1.0	2.5	1.7	• 3								4.6	5.1
SSE	1.3	3.2	2.3									6.5	6.0
5	3.2	13.2	17.4	3.2			Ī .					38.1	6.7
SSW	5.7	5.9	6.1	• 6								71.3	5.0
SW	1.9	1.3										3.2	2.7
wsw	.:											• 3	2.0
w		• :										• 3	4.5
WNW		• 6:										• 6	5.0
NW	• 5	• 3										1.5	3.3
NNW	. 3	. 3	• 3									1.0	4.3
VARBL													
CALM	$\supset \subset$	> <	$\supset <$	$\supset \subset$	$\supset \subset$	$\supset <$	$\supset <$	$\supset <$	> <	$\supset \subset$	> <	12.9	
	21.5	31.0	29.2	4.2	. 3							170.0	4.9

TOTAL NUMBER OF OSSERVATIONS

310

**\$MO8** 

#U.S. GPO 1984:741.348/201

# SURFACE WINDS

# PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

939 1	DALLAS, TE	73+A2	JUL
STATION	STATION NAME	YEARS	MONTH
	<del></del>	ALL PEATHER	D&
		CORRESTION	

SPEED (KNTS) DIR.	1 - 3	4-6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	*	MEAN WIND SPEED
N	1.5		. 3									1.3	4.3
NNE	. 6	105										: 3	3.6
ME	1.0					<u> </u>			<u> </u>		<u> </u>	1.0	2.3
ENE	• 6	. 6					<u></u>		<u> </u>	<u> </u>		1."	3.5
ŧ	• 5	1.3				<u> </u>		Ļ	ļ			1,9	3.5
385	1.4	2.3				L		L		<u> </u>		4.9	3.7
\$4	104	2.3	, 3			ļ						4,2	3.8
288	1.3	2.6	1.0	• 3						ļ		6.1	5.7
8	5.5	14.2	8.7	1.0					ļ			30.3	5.6
\$\$W	3.7	12.6	4 .5	. 3								27.1	4.5
\$W	4.2	. 3					<u> </u>					4.5	2.3
WSW							ļ						2.0
w							<u> </u>	<b></b> _				•6	3.C
WNW									<b></b>	<del></del>	<u> </u>	<b></b>	
NW	3					ļ	<b></b> _	<b></b> _		<b></b>		- 5	4.0
NNW	• 3			ļ		L	<b></b> _	<b></b>		ļ	<b></b>	• 3	<u> </u>
VARBL					Ļ,	Ļ.,	Ļ.,			Ļ			
CALM	$>\!\!<$	$>\!\!<$	$>\!\!<$	$\geq \leq$	$>\!\!<$	$\geq \leq$	$\geq \leq$	$\geq \leq$	$\geq \leq$	$\geq \leq$	$\geq \leq$	13.2	
	30.6	38.7	15.5	1.6				1	[		[	100.0	4.1

TOTAL NUMBER OF OSSERVATIONS

#### SURFACE WINDS

# PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

GTATION	JALLAS TX STATION HANG	13-82 YEAR	
	<u></u>	SAME C	HOURS (L.S.Y.)
		COUNTING	_

SPEED (KNTS) DIR.	1-3	4-6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - \$5	≥56	*	MEAN WIND SPEED
N	1.7	<u>. 6</u>	ě									2.6	4.5
HNE		1	. 6				L	L				1.0	7.
NE						<u></u>		L					_ }•
ENE	, ź.	. 3	7									1.3	4.5
g.	1.0	1.3	_ 3				L					3.5	3.0
ESE	_ 45.	1.2	. 3			L						1.7	و و و
\$£	1.5	2.5	3			L	L	I	L			4.5	4 . [
SSE	3.5	4.3	1.5	• 3								10.5	4 . !
\$	3.2	7.1	10.0	7.1		l			ļ	l		27.4	7.6
35W	1.5	8.1	0.4	1.6								19.7	6.4
sw	1.2	2.5	7.0									6.4	5,
wsw	1.3	la 9	1.7									* • 5	5.0
w	1.6	1.0	• 5									3.2	4.1
WNW			• 1									• 4	7,5
NW				• 3								1.0	5.7
NNW		1.0										1.0	4.1
VARSL													
CALM	>>	$\times$	$\times$	> <	> <	$\geq$	> <	$\geq \leq$	$\supset <$	$\supset <$	> <	8 . 1	
	21.0	32.3	20.4	9.4			Ţ					170.5	5.

#U.S. GPO 1984 741 348-201

# SURFACE WINDS

#### PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

STATION	OALLAS, TV STATION HAME	<u> </u>	JUL Month
		SLA WEATHER	HOURE (L.S.T.)
		COMPLETION	<del></del>

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥54	*	MEAN WIND SPEED
N	1.06	• 3	,	. 3								2.6	5.0
NNE		1.5		• 3			L					2.3	5.6
NE	- 3	. 6										1.5	٩,
ENE	7	• 5	,	• 3					<u> </u>			1.6	7.0
	1.0	1.4	غ و									4.2	٠,
ESE	. 0	2.€	1.				L					5.8	4 . (
SE	2.5	2.9	1.6									7.1	4.
388	3.7	9.4	301	1.0								20.3	5.
\$	4.2	4.7	13.5	5.2								32.0	7.
SSW	10.	2.6	2.6		_ 3							7.4	7,
\$W			1.1	. 3		L	Ĺ <u>.</u>				I	1.6	5,
WSW		2.3	1.									3.5	5.
. w .		. 3						[				1.3	5.1
WNW	ين فق	1.0										2.3	4.
NW						L	<u> </u>	L	Ĺ				\$ .
NNW		0.5				I		<u> </u>				•6	4 .
VARBL						[							
CALM	$\supset \subset$	><	$>\!\!<$	$>\!\!<$	$>\!\!<$	><	$\geq \leq$	$\geq <$	$>\!\!<$	$>\!\!<$	$\searrow$	5.7	
	20.3	35.5	29.7	8.1	- 3		The state of the s					1:00.0	5.

#US GP0 1984 741 348:201

#### SURFACE WINDS

# PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

STATION	STATE AS TY STATION HAME	73-82 YEARS	JUL HONTH
	<del></del>	ALL WEATHER	HOURS (LEY)
		CORDITION	

SPEED (KNTS) DIR.	1 - 3	4.6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	*	MEAN WIND SPEED
N		1.3	.3	. 3								2.5	5.3
NNE		. 3	. 3									1.3	7,3
NE		1.3	1.3	1.5			i					4.5	7.3
ENE		3	7						_•			7.3	3.7
E	1.3	2.0	3_		3							5.5	6.3
282		1.2	1.1.7									3.0	6.4
SE	2.5	4.7	4.8	1.5								12.5	6.1
SSE	2.2	3.1	11.7	1.9								24.2	6.8
\$	1.5	8.4	12.3	3.2	3							26.1	7.4
\$5W		1.6	1.5	1.0								4.3	7.0
SW_	. 5	1.3					I					1.6	4.2
W\$W												. 3	1.0
w	3	. 1		7								1.0	6.3
WHW	7	1.0	, ,									1.6	4 . 8
NW	1.0	, 7	· fx									1.7	4.7
NNW	• 5:	• b										1.3	4.3
VARBL													
CALM	$\boxtimes$	><	$\supset <$	><	><	> <		><	><	$\supset <$	$\supset <$	4.2	
	15.5	32.9	36.1	9.7	6							100.	4.3

510

### SURFACE WINDS

# PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

4.15 I	DALLAS, To	73+82		JUL
STATION	STATION NAME		YEARS	MOSTH
		ALL HEATHER		1 ?
		CLA95		HOURS (L S T
		CONSTRION		

SPEED (KNTS) DIR.	1 - 3	4.6	7 - 10	11 - 16	17 - 21	22 · 27	29 · 33	34 - 40	41 - 47	48 - 55	≥54	*	MEAN WIND SPEED
N	1.	1.7	1.0		.3							3.4	6.1
NNE	1 2	1.0	<u> </u>	. 3								3.2	5.9
NE.	1.3	. 3 و . م		3								1.6	5.6
ENE		1.	1.0	- 3								2.4	6.6
ŧ	10.7	5.2	2.6								1	9.4	5.6
ESE		2.5	3.0	1.0								7.7	7.7
SE	1.7	3.	?.1	1.6	• 3							13.7	6.1
sse	1.7	11.2	11.0	2.6								27.4	7.4
\$	1	7,4	3.7	1.9								23.3	7.2
SSW		le:	t.									1.5	6.6
5W		• 3								<u> </u>		1.00	2.3
WSW		7										7	5.0
w												!	8.0
WHW										L		" a #	2.0
NW												1	
NNW	• 3	1. *									i	1 • *	5 •
VARBL										L			
CALM	$\supset <$	$>\!\!<$	$\searrow$	$>\!\!<$	$>\!\!<$	$>\!\!<$	$>\!\!<$	$\geq <$	$>\!\!<$	$>\!\!<$	><	4 • 1	
	10.0	36.	30.0	P . 1	. 5							170.	6.7

TOTAL NUMBER OF OSSERVATIONS

310

SMOS

#U.S. GPO 1984 741 348/201

# SURFACE WINDS

#### PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

STATION	CALLAS. TY	STATION NAME		<u></u>	-:		YEARS				J CIL
				SEL WEATHE	۲						21
				CLASS						NO	VIS ILST
		<del></del>		C04017104							
Г	<del></del>	7	T			7		1	, ,	,	7

SPEED (KNTS) DIR.	1 - 3	4+6	7 - 10	11 - 16	17 - 21	22 · 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	*	MEAN WIND SPEED
н			.2									1.0	5,7
NNE	104				L							10%	2.2
NE	1.0	-										1.5	3.2
ENE	7.3	1.6	3				•			•	•	6.2	3.5
E	1.5	5.2	2.3	- 5								9.7	5.8
ESE		6.1	3.3									10.5	5.0
SE	1.6	12.3	11.5	1.0								26.5	6.5
SSE	l iet	5.0	5.4	1.0		Ī				I .		17.1	7.3
\$	9.5	5.00	3.7	. 7								14.5	5.3
SSW	1.7	1.6				1						3.	3.5
SW	• ፣	• ?										• 4	3.0
wsw													
w													
WWW			•									• 5	5.5
NW	•											• 3	2.5
NNW	• 7	• 5			[							1.	4 .!
VARSL													
CALM		$\times$	><	><		$\supset <$		$\supset <$	$\geq \leq$	$\ge$	$\times$	6.	
	17.7	39.7	\$2.5	2.9								170.0	5.5

TOTAL NUMBER OF OBSERVATIONS

d.

#### SURFACE WINDS

#### PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

i :	1411 45 , TY	73-92		JH.E.
STATION	BHAN HOITATS		YEARS	MONTH
		ALL REATHER		8 L L
		CLASS		HOURS (L S T -
	<del> </del>	CONDITION	<del></del>	

SPEED (KNTS) DIR.	1 - 3	4 · 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	40 - 55	≥56	*	MEAN WIND SPEED
N				.:								1.5	5.1
NNE		7	2									1.7	5.0
NE	,											1.6	5.3
ENE	1.0		ــ قـــ فـــ	•1								2.2	4.5
ŧ	104	20:	1.7	. 2	13.							5.0	5
£SE .	1 2	2.	1.									5.4	5.7
\$6	10:	4.3	3 . 3	. (-	• -							10.	5.1
332		F . 14	5,00	1.1								16.4	6.5
\$		17.5	11.1	7.0								78.7	5.3
\$5W	: 2	<u>تونة</u>	7.3	• •	• -							11.5	5.5
\$W	107		• F	• *					<b>!</b> _			2.7	4.3
WSW	• (		• 3									1.2	٠,2
	• •		•	• 3					ļ			• 3	4.6
WNW									ļ			• •	4.6
NW	•	• 1		• 7								• •	*
NNW	•	<u>•</u> <u>\$</u>										• 7	4 . 4
VARBL													
CALM	$\geq \leq$	$>\!\!<$	$>\!\!<$	$>\!\!<$	$\geq \leq$	$>\!\!<$	$>\!\!<$	$\geq \leq$	$\geq \leq$	$\searrow$	$>\!\!<$	9.	
	10.0	35.7	30.7	2 • 1	. 2							1 10.0	5.5

TOTAL NUMBER OF OBSERVATIONS 24.79

SMOS

RUS GPO 1984 /41

# SURFACE WINDS

# PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

3 1 3 1 STATION	TALLAS 7 1	73-87		AUS
3747100	STATION MARK		YEAM	MONTH
		ALL WEATHER	<u></u>	00
		CLASS.		MOVES (1.8.7.)
	<del></del>	COMBITION	<del></del>	

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥54	*	MEAN WIND SPEED
N	1.2	<u>.</u> 5		. 7								2.3	4.9
NNE	- 5	. 6	3	.3								1.0	6.3
NE	1.3	1.0		3								2.3	4,7
ENE	. 5	• 0										1.3	3.0
	1.5	3.5	1.6									6.1	5.0
ESE	7.3	3.5	4.5			1						10.3	6.0
SE	1.3	3.5	4.5	• 5								9.7	7.0
SSE	7	5.2	6.2	1.6								13.9	7.5
5	1.6	12.9	14.2	3.9								32.6	7.3
SSW	3.2	1.6	. 3									5.1	3.1
SW	6											.6	1.5
wsw	• 3										-	.3	3.0
w													1.0
WNW	3											• 3	1.0
NW		. 7				• ?						• *	10.5
NNW	. 1,	• 3										1.0	3.3
VARBL													
CALM	>>	$\times$	$\times$	$\times$	$\times$	$\supset \subset$	$\times$	$\times$	> <	$\supset \subset$	>>	10.3	
	15.1	33.9	32.3	7.1		. 7						100.0	5.7

TOTAL NUMBER OF OSSERVATIONS 310

#U.S. GPO 1984 741 348: 201

#### SURFACE WINDS

#### PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

STATION	LALLAS, TY STATION HARE	7.5 - 6.7 YEARS	AUG
	Sh. L. W	EATHE?	ETS
		Marking law	

SPEED (KNTS) DIR.	1 - 3	4.6	7 - 10	11 - 16	17 - 21	22 · 27	20 - 33	34 - 40	41 - 47	48 - 55	≥56	*	MEAN WIND SPEED
N	7	1.3		. 3								1.6	6.2
NNE	103	, i	• 5	. 3								2.4	5.5
NE												• 5	1.0
ENE	! • !	3	• 5	• 3	Ĺ							2.3	5.3
E	1	. 3		. 6								2.6	7.0
ESE	• :	2.3								<u></u>		2.6	5.0
8.0	1.5	4 . ?	1.			, t						7.4	5.6
388	1.5	4 . 5	5.5	• 3	<u></u>			<u> </u>	<u> </u>			12.6	6.4
	3.5	17.5	15.2	2.9	. 3		L	L				72.7	6.9
\$\$W	5,0	4.6	7.5				<u> </u>		L	L		13.2	4.1
\$W	10 "	. 3										1.0	3.0
W\$W	ت											• 3	3.0
w	<u> </u>						<u> </u>					• 1	3.0
WNW												<b>!</b>	
NW	1.1	1.						ļ				1.3	3.5
NNW	• "	1.03	• 45							<u> </u>		2.5	5.5
VARSL									<u> </u>		Ĺ		
CALM	$>\!\!<$	$>\!\!<$	$>\!\!<$	$>\!\!<$	$>\!\!<$	$>\!\!<$	$>\!\!<$	$>\!\!<$	$>\!\!<$	$>\!\!<$	$>\!\!<$	14.8	
	21.9	31. t	27.1	4 . 5	. 3	.3						100.0	5 . C

310

#### SURFACE WINDS

#### PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

17731	DALLAS. TA	73-82	
STATISH	STATION MARE	YEARA	MONTH
		ALL REATHER	96
	<del></del>	CLASS	HOURS (L.B.T.)
	<del></del>	COMPLYION	<del></del>

SPEED (KNTS) DIR.	1 - 3	4-6	7 - 10	11 - 16	17 - 21	22 · 27	26 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.2	1.0										2.3	4.1
NNE	1.5							L			<u></u>	1.7	3,2
NE		. 3										1.5	3.7
ENE	1.6	1.1	. 3	. 3								3.2	4.2
ŧ	1."	1.5	• 5	. 3						I		4 . 2	4.9
ESE		2.3						Ĭ			L	3.7	4.1
SE		5.0	1.3	. 3								6.1	5.7
SSE	2.4	2.2	1.0									9.0	4.2
\$	4.2	7.7	3.7	3.2			l					26.5	6.6
SSW	5.4	7.1	2.6									18.1	4.1
SW	lai	. 1										1.5	2.4
wsw	1 7											1.3	1.5
w													
WWW													
NW			, 7							Ī		. 3	F . D
NNW	l i.	1.9										1.7	4 . 0
VARBL	T												
CALM	$\supset <$	$\times$	$\times$	$\times$	$\times$	$\geq \leq$	> <	$\geq <$	$\geq <$	$\geq <$	$\geq \leq$	10.	
	25.4	31.49	10.5	4.2								100.0	4.0

TOTAL NUMBER OF OSSERVATIONS 310

**8M**08

NUS GPO 1984, 741.3

#### SURFACE WINDS

# PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

379.1	DALLAS. TA	73+63		∌ជាក
STATION	STATION MARK		YEARS	MONTH
		ALL MEATHER		26
		CLASS		HOURS (LST)

SPEED (KNTS) DIR.	1 - 3	4 · 6	7 - 10	11 - 16	17 - 21	22 - 27	20 - 33	34 - 40	41 - 47	48 - 55	≥56	*	MEAN WIND SPEED
N	1.0	1.0	. 6									3.2	5.1
NNE	• •	ة و										1.3	3.8
NE		1."	• 0									2.1	5.3
ENE	1.	• 3	7	• 3								1.7	5.7
ŧ	1	1.3	i.									3.2	4.9
696	1.07	2.3	• ?	. ?								4.8	4.6
¥	1.3	3. ?	1.0	• 3								5 • ê	4.9
35E	3.0	3.5	2.7									10.3	4.6
\$	7.2	11.	17.3	3.0	. 3							28.7	7.2
SSW	3.3	5.2	5.2	5.2			T					12.4	7.9
SW	1.3	2.6	1.5			T		T	1			5.4	5.6
WSW	1.0	1.7	. 5									2.6	4.9
W	. 3											• 3	2.0
WNW		• 3	• ;									1.0	4,7
NW		. ?						· · · · · · · · · · · · · · · · · · ·				7	4.0
NNW	• ?	• 3	•€			<b></b>				<u> </u>	i	1.3	5.5
VARBL	T		7.							<b>†</b>			
CALM	$\bowtie$	$\times$	$\times$	$\times$	$\times$	$\times$	$\times$	$\times$	$\times$	$\times$	>	9	**
	20.0	34.3	25.5	10.3	. 3							100.0	5,7

TOTAL NUMBER OF OSSERVATIONS 310

SMO8

#U.S. GPO 1984 741:348/201

# SURFACE WINDS

# PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

STATION	DALLAS. TE STATION NAME	73-87	YEARS	A 2-5
		ALL WEATHER		HOURE (L E T )
		CONSTITION	<del></del>	

SPEED (KNTS) DIR.	1 - 3	4-6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥54	*	MEAN WIND SPEED
N	7	2.3	1.5	1.3								4.9	6.9
NNE		1.9	زو						I			2.6	5.5
NE		1.9		. 3								2.3	4.4
ENE	• 3		• 3									•6	4.5
E	1.3	2.3	. 6	• 3								5.5	4.5
ESE	2.3	2.6					Ī					4.8	5.5
SE	3.4	5.5										10.0	3,7
SSE	4 . 1	2.9	9.7	.3								22.7	5.6
\$	2.3	1.4	10.3	4.5		I						25.5	7.4
SSW	1.0	1.4	2.5	1.5								6.3	7.8
SW		1.7										1.5	3.9
wsw	1.2			. 3								1.4	6.3
w	1.2	. 3										1.5	2,8
WNW												1	
NW	. 7		. 6									1.7	5.7
NNW		1.										1.6	5.6
VARBL													
CALM	$\bowtie$	>>	$\supset \subset$	$\supset <$	> <		$\geq \leq$	$\supset <$	$\supset <$	$\supset <$	$\searrow$	<b>b</b> • 0	
	20.3	37.7	26.8	9.4								100.5	5.6

TOTAL NUMBER OF OBSERVATIONS 310

SMOS

#U.S. GPO 1984.741

# SURFACE WINDS

# PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

- 1 - 1	CALLAS, TY	73-8?	AUG
STATION	STATION HAME	YEARS	WONTH
	ALL NE	CATHER	15
		CLASS	HOURS (L S Y )
		MAIN THE RESIDENCE OF THE PROPERTY OF THE PROP	

SPEED (KNTS) DIR.	1.3	4 · 6	7 - 10	11 - 16	17 - 21	22 - 27	20 - 33	34 - 40	41 - 47	40 - 55	≥56	*	MEAN WIND SPEED
N	,	1.:	,,	1.2								3.5	6.9
NNE	3 - 1	1.	1,7									7.9	5.4
NE	1.	- 3	• 3	.6								2.3	6.3
ENE		1.	. 5						]			2.3	5 • 3
T.	3.5	2.3	1.3	.6			T					7.1	5.3
ESE		5.0	1.6			I						7.4	5.6
#	7 2	4.5	3.2	. 3								11.4	5.3
\$52	3.7	11.5	7.4	1.6								24.5	5.9
8	2.9	6.3	9."	2 • 2				Ĭ				23.5	7.6
SSW	,		1.7	1.3								4.8	7.3
\$W			1.						I			1.0	10.0
W\$W	1	• *				I	I					• 7	4.0
w													3.0
WHW		• 4,							L		l		5.0
NW		. 3	. 3									1.0	5.3
NNW		• 3	1,7									1.5	7.2
VARSL													
CALM	$\bowtie$	><	> <	> <	><	><	$\supset <$	$\supset <$	$\supset <$	$\supset <$	$\geq <$	5.	
	17.4	37.4	29.4	10.3								100.2	9.0

TOTAL NUMBER OF OSSERVATIONS 510

SMOS

# SURFACE WINDS

#### PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

STATION STATION	DALLAS. TX STATION HARE	73 - 17 YEARS	AUG HORTH
		ALL SEATHER	NOVES (LIST)
		CONTINU	

SPEED (KNTS) DIR.	1 - 3	4-6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	49 - 55	≥56	*	MEAN WIND SPEED
ĸ	1.7	1.C	- 6	. 3								3.2	5 - 3
HHE	1.0	- 3	lab									2.9	6.0
NE			1.5									2.3	6.0
ENE		2.3	1.3						L	L		4.2	5.5
ŧ	1.5	5.2	4	1.5	3				<b></b> _			13.2	5.7
ese	1.0	4 5	7 0	. 6	3				<u> </u>		L	12.6	7,2
SE	100	C . T	4.2	1.9		<u> </u>				L		13.2	6.7
SSE	2.3	4.2	9.7	2.5			ļ	Ļ	<u> </u>	<u> </u>	<u> </u>	19.C	7.3
\$	103	300	8.4	3.2						<u></u>		18.7	7.6
SSW	لقام ا	د ه	• 3							<u> </u>		1.3	4.5
SW											L	• 5	2.5
wsw							Ĺ				L	لنوال	6.3
W		. 3								l		1.5	4.3
WNW	. 3	• 5					<u> </u>					1.0	3.7
NW	. 2	• 3					L					• t	4.5
NNW		1.3	1.0				<u> </u>				L	2.7	5.6
VARSL							L						
CALM	$\searrow$	$>\!\!<$	$>\!\!<$	$>\!\!<$	$>\!\!<$	><	$\geq \leq$	$\geq <$	$\geq \!$	$\geq \leq$	$\geq \leq$	2.*	
	14.5	33 • Z	37.0	10.0	, 6							100.5	6.6

TOTAL NUMBER OF OBSERVATIONS

312

#### SURFACE WINDS

#### PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

57911	DALLAS. TX	73-37	<b>≜</b> US
STATION	STATION HAME	YEARS	MONTH
		ALL SEATHER	21 moves (LST)

SPEED (KNTS) DIR.	1 - 3	4-6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥54	%	MEAN WIND SPEED
N	7	1.5										2.3	4.3
NNE												1.0	4,3
NE	. 6	. 6							L			1.6	4.0
ENE	. خ	105										7.3	3.7
E .	7.3	5.1	3.2	3								11.9	5.5
ESE	₹•0	7.4	7.4	<b>.</b> €:	. 3							19.7	6.1
SE	4 0 7	H <sub>e</sub> u	7.4	1.3	. 3				L			71.5	6.2
SSE	• 5	6.0	9.4	1.7								17.7	7.0
\$	2.5	2.4	2.3	1.0						L		10.7	5.5
SSW	1.5	1.7	• 3	. 3			L					2.9	4.8
sw													
WSW													
*	. 7	. 3			<u> </u>							• 5	4.0
WNW													
NW		. 3										• 3	4 • C
NNW	, 7	100										1.3	4.0
VARBL										I			
CALM	$>\!\!<$	$>\!\!<$	$>\!\!<$	$>\!\!<$	$>\!\!<$	$>\!\!<$	$>\!\!<$	$>\!\!<$	$\geq \! \! \! \! \! \! \! \! \! \! \! \! \! \! \! \! \! \! \!$	$>\!\!<$	$>\!\!<$	6.1	
	17.7	39.7	31.7	4.5	9.6							100.2	5.4

TOTAL NUMBER OF OBSERVATIONS 310

# SURFACE WINDS

#### PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

937 1	DALLAS. T	73-32		AUS
STATION	STATION HAME		YEARS	MONTH
		ALL SEATHER		ALL
		CLÁSS		NOVES (L S T.
	<del></del>	CBM917100		

SPEED (KNTS) DIR.	1 - 3	4.4	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	44 - 55	≥56	*	MEAN WIND SPEED
N	. 7	1.3		4								2.9	5.6
NNE	a.	46	خه	. 1								2.1	5.2
NE	- 5	7	~	. 2								1.4	5.3
ENE	. 3.	• 2	. 4	• 1								2.3	4.9
ŧ	1.3	2 • 2	1.7	. 4	.0							6.7	5.1
ESE	1.7	3 - B	2.5	. 2	. 1							6.2	5.1
SE	2.4	4.7	2.9	3.		41.						10.7	5.7
SSE	2.7	5, 6 4	6.4	1.0								16.2	6.3
3	2.7	5.7	9.9	3.5	1							24.9	7.1
SSW	2.0	2.3	7.1	1.3								9.0	3.6
5W	. 7	. 5	• ?									1.0	4.6
wsw	, <	• 2	• 2	- 0								. 9	4 .
w	- 4	• 1										· t·	3.2
WHW	- 1		• ~									. 4	9 . [
NW	• ?	. 3	_ •2			• ~			· ·			\$ 5	5 . 5
NNW	••	. !'	, EL									1.7	٠. ١
VARBL													
CALM	$\supset \subset$	$>\!\!<$	>>	><	><	><	$\supset <$	$\supset <$	$\supset <$	><	><	3.	
	17.4	33.0	23.5	7.5	. 2	-1						130.0	5.5

TOTAL NUMBER OF OBSERVATIONS 2440

**8MO8** 

#### SURFACE WINDS

#### PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

ora y	ひましたもちょ すぇ	73-92	SEP
STATION	SYATION MAME	YEARS	RONTH
	,,,,	ELL WEATHER	NOURS (L.S.T.)
	<del></del>	COMBATION	

SPEED (KNTS) DIR.	1.3	4.6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	*	MEAN WIND SPEED
N	3.0	3.3	7.7									9.3	4.7
NNE	1.7	2.0	. 7									4.3	4.3
NE	1.0	, 7	. 3	. 7								2.3	4.7
ENE	3.07		7									2 - 3	4.1
•	•	7.0	1.0						1			5.5	4.5
ž\$E	1.7	2.7	3.7	1.0								8.7	5.5
\$E		4.7	3.0	2.1								9.7	7.4
35E	1.7	4 , ":	3.7	1.7								10.0	5.4
\$	4,7	4.0	9.3	2.3								70.3	£ . 7
SSW	2.3	2, 1	*	• 3			]					5.0	4.6
SW	1.	• 3										1.7	3.0
wsw								i					
w			• 7									. 7	6.0
WNW	, ,											.7	2.0
NW		• 7				<u> </u>						.7	4 • 0
NNW	3.0	1.3	.7	• 3								4.3	4 . 5
VARBL													
CALM	$\searrow$	> <	> <	$\times$	$\times$	>><	$\times$	> <	$\times$	$\sim$	>>	15.3	
	23.3	27.7	26.3	7.3								130.0	4.5

TOTAL NUMBER OF OSSERVATIONS

300

# SURFACE WINDS

#### PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

STATION	STATION NAME	7.5=0.2 YEARS	2 <u>2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 </u>
	ALL dE	STAFS	NOUNS (L S T
	CONID	117100	

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥54	*	MEAN WIND SPEED
N	2.3	3. 7	1.3									7.2	4.7
BNN			1.									2.0	5.5
NE	2.3	2.3										5.0	3.4
ENE	1.0	3	7					-	I			2.0	4.2
₹	100	. 7	, 7									3. 1	4 . 0
ese	1.2	1.3		. 3								3.7	4.9
\$E	3	2.7	• 1	• 3								5 . C	4.9
SSE	• 1	4 .	R g '	1.4								30.7	7.3
\$		7.3	7,7	3.3								21.0	7.2
SSW		2. 7	. 7									£ . ]	4.0
SW	1.7											1.7	1.4
wsw												. 7	4.5
w	7												4.5
WNW		• 3											4.0
NW		. 3										7 . 7	2.6
NNW	7.2	2.	2.0						I			6.	9.7
VARBL													
CALM	$\supset \subset$	><	$\supset <$	><	> <	><	$\supset <$	$\triangleright <$	><	$\supset <$	> <	10.5	
	27.0	25.3	19.3	5.3								100.0	4.3

TOTAL NUMBER OF OBSERVATIONS

40°0

# SURFACE WINDS

#### PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

STATION STATION	OALLAS, Tr	13-67		C E E
BYATION	STATION HARL		YEARS	врати
		ALL WEATHER		\$6
		CLASS		HOURS (LST
		COMBITION		

SPEED (KNTS) DIR.	1 - 3	4-6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	*	MEAN WIND SPEED
N	7,7	2.1	2.7	• 7								9.7	5.6
NNE	4 . 3	1.5	7	7.								6.3	3 - 3
NE	7 . 12	. 3	1.5									3.3	3 • 5
ENE	1.	1.7										2.3	3.5
8	2.0	. 7	• 7									3.	3.4
ESE	1.*	1.										1.3	₹., 8
SE	1,7	3.0	1.7									6.3	4.9
358		3.7	4 .	. 3								Α	6.8
3	4.7	5.3	4.7	2.7								18.5	5.9
SSW	1.	3.3	1.									5.~	4.5
sw												1.0	1.7
WSW			• 4									.7	4 . 1
w	. 3	• 3.							<u> </u>			• 7	3.5
WNW		• 3	• ?									1.0	4.
NW	. 3	1.3	• 3									4.0	3.9
NNW	3.	2.3	. 3	• 3								5.	4.1
VARBL													
CALM	$\supset \subset$	> <	$\mathbb{X}$	$\mathbb{X}$	$\searrow$	> <	> <	>><	> <	$\supset \subset$	> <	70.1	
	22.7	29.7	17.0	4.3								100.r	3.4

TOTAL NUMBER OF OSSERVATIONS

300

NAVAL WEATHER SERVICE DETACHMENT ASHEVILLE, NC

#### SURFACE WINDS

# DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

STATION	ALLAI STATION HARE	372-57 YEARS	DONTH
	ėl i e	2 7 : E :	HOURS (L S T
	Chit	DIT 164	

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	44 - 35	≥ 56	*	MEAN WIND SPEED
N	1.7	2.5	6.3	2.0						·		12.	7.2
HNE	,	2	1	3								3.7	6.6
NE	1.0	1.7	1.							<u> </u>		3.7	5.8
ENE	7	1.5	1.									3.5	5.5
£	1.	1.7	1.	7								4.7	5.4
ESE	i.	تعا	7									3.7	4
SE		7.5	1.	1.0								7.0	0.0
SSE	3.7	1.7	3.7	1.								11.7	5.3
5	1.:	3.3	5.7	<b>.</b>								16.3	3.9
\$\$W	10/	7.0	1.7	2.3								5.5	3.2
SW		1.	1.5	• 3								3.	£. 0
W\$W			_										2.0
w			, ,									• •	7.0
WNW												• 7	9.5
NW		, ,	1.0									7.5	5.4
NNW		• •	• ?									4.	4.3
VARBL													
CALM	><	> <	$\times$	$\times$	$\geq$	$\times$	$\geq$	$\geq \leq$	$\geq <$	$\geq \leq$	><	15.7	
	17.7	24.5	23.0	13.0								1 70 • 1	5.7

TOTAL NUMBER OF OBSERVATIONS

3 °C

PERCENTAGE FREQUENCY OF WIND

# SURFACE WINDS

#### PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

. •	TANGAS. TY	*7-42	SEP
SYATION	SHAN NOITATS	YEARS	#D#T#
		SATHE A	HOURS (L S Y
		CONSTRON	

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥\$6	*	MEAN WIND SPEED
N	٦	3.0	2.7	7.7								11.3	7.5
MME	1.1	2.	1,7	• 3								5.0	5.7
NE	1	1.5	2.	. 3								4,7	6.8
ENE		1.		. ?							i	3.7	5.7
ŧ			1.7	4.3								6.0	4.9
ESE		• ′	1.1	, ,	L	I					L	200	5.7
SE			, 7	• 7								6.5	
SSE	7	5 . 7	5.	2.3								17.0	6.3
5		4	5.0	5.7	. 7							15.1	9.3
SSW	2		3.:	2.								5.7	8.6
\$W		1.	1.								[		6.3
WSW		7	- 7				I						5.1.
w	1	. :		• 3								1.7	9.0
WHW		, ,_										• 7	
NW	ز و	7	1.	. 3				I				2.3	7.5
NNW	2.0	1.5	1.3	1.0	• 3							5.	7.7
VARBL													
CALM		><	$\triangleright\!\!<$	><	$\triangleright <$	><	><	><	$\supset <$	$>\!\!<$	><	€.7	
	20.7	25.7	27.7	17.7	,,							100.0	6.5

TOTAL NUMBER OF OBSERVATIONS

300

**SMO**\$

JS GPO 1984 741 348-20

# SURFACE WINDS

#### PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

STATION	STATION NAME	73-82	YEARS	СЕР ИТИОНТИ
	21	CLASS CLASS		1 9, HOURS (L.S Y.)
		COMPLYION		

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	20 - 33	34 - 40	41 - 47	48 - 55	≥56	%	MEAN WIND SPEED
N	, ,	2.3		2.7								11.3	3.7
NNE	1	3.3	2.3	. 7								7.3	5.4
NE		2.7	1.5	. 7								5.0	6.9
ENE		2.3	1									3.3	5.8
E	1.0	2.3	1.7	. 7								5.7	£ . 4
ESE	2.7	3.3	2.7									8.7	4.9
SE	3.3	2.0	1.3	1.3								7.7	5.4
SSE	4	5.3	3 -	1.7								19.3	5,9
5	1.	3.	7,"	4 . 3								15.7	8.6
\$5W	1.	1.7	1.1	1.0								5.	7.4
SW		7	7									1.0	11.3
WSW													
w												.7	<b>0.</b> €
WW	• •	7	7									1.7	4 . 4
NW		, ,	. 3	,,								1.7	7,4
NNW	1.7	1.7	7	1.7								5 . 3	0.€
VARBL													
CALM	><	> <	> <	$>\!\!<$	> <	> <	> <	> <	> <	$\geq <$	$\geq \leq$	5.7	
	17.7	31.7	29.7	15.0	. 3							100.0	6.5

TOTAL NUMBER OF OBSERVATIONS

130

SMOS

### SURFACE WINDS

#### PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

FACE WINDS JAN 78

						EATHE:						HOVES	(LST)
	- -				con	9171 <b>0</b> 11				_			
SPEED (KN7S) DIR.	1 - 3	4.6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	*	MEAI WINI SPEE(
N	-	2.0	3.	_1.1			<u> </u>	<u> </u>	<del></del>			11.3	
NNE	, ,	1 7	7				1						
NE	- 44	3.3	, ,									50.7	
ENE		***	1	. 7								507	
E	. 7	5.7	3.3		·							15.3	•
ESE		5 -	7.3	-								10.7	1
SE			<u> </u>	7								12.3	
SSE	,	7		1 - 7	- 3							12.7	7
5			3.3	2								12.0	
SSW			7									, ,	-
5W		,										,	
WSW													
w												7	
WNW		,						L				1	
NW_								l					23
HHW			1.	1.0	3							• ,	
VARBL													
CALM					$\overline{}$								

TOTAL NUMBER OF OBSERVATIONS

SMOS

### SURFACE WINDS

#### PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

+ 19 ° 1	CALLAS. TA	7 % + 9 <u>7</u> % + 9 <u>7</u>	
STATION	STAT NOT PARTS	TLAM	MONTH
		ALL WEATHER	21
		GLASS	HOURE IL S T
	<del></del>	Abbut Oaks	

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	44 - 55	≥56	*	MEAN WIND SPEED
я	3.0	2.7	1.7									7.3	4.8
NNE		2.0	1.0							<u> </u>		7.0	4.6
NE	2.3	103									L	3.7	3.5
ENE	3.0	2.7		_				l				5.7	3.4
E	1.7	4.7	2.3	. 7		. 7						9.7	6.6
ESE	la?	5.3	1.3	. 7								2.7	5,9
SE	2.0	4. 7	5.0	1.3							L	13.0	6.5
3\$E	, , ,	3.0	5.3	3.3	3							13.7	٤.
5	1.7	2.7	3.3	1.7								9.3	7.
SSW	1.:								L			1.7	2.0
_sw_												• 5	2.5
wsw									Ĺ				
w		. 3										• 7	3.5
WNW	ازو								L		ĺ		3.0
NW	_ • .	, 7						L				1.0	4.
NNW	1.7	2.3	1.7	• 3								6.	5 . 2
VARBL													
CALM	$>\!\!<$	$>\!\!<$	$>\!\!<$	$>\!\!<$	$\geq <$	><	$\geq \leq$	$\geq \leq$	><	$\geq <$	><	17.0	
	2 4	32.3	21.7	5.7		- 3						100.0	5.

TOTAL NUMBER OF OBSERVATIONS

**SMO8** 

# SURFACE WINDS

#### PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 · 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	*	MEAN WIND SPEED
N	- 3		7.4	1.2				Î				ا يُو مِينَ	
NNE		2	1.1										
NE	1	1.	1.0	2								4.3	
ENE		1.5	,						I .			30:	4 . 1
E		2 - 1	1 - 4.	. 2								5.0	
ESE		2.	1 . /									ذمط _	E 5
SE		7.0	- 7									2.5	
SSE	-	3		1.4	,							11.	لمذ
5	. ,		5.7	7 5								16.1	7.6
SSW		1.5	1.2	,									- 4-4
SW			7									,	5.1
wsw	-		,	-				1					- 4.1
w	-			,									
WNW			•	•								- 5	
NW	-		,				T	1	<u> </u>				
NNW	7.7	, ,	1.	- 5	. 1							5.1	
VARBL						<u> </u>							
CALM	><	$\times$	$\times$	$\times$	$\times$	$\times$	> <	$\geq$	$\times$	$\times$	> <	10.3	
	22.0	30.43	25.0	٠, ٩		- 61						150.0	5

FACE WINDS JAN 78

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## SURFACE WINDS

#### PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

STATION	STATION NAME	73-62 VEARS	OCT.
	ALL	FATHE:	MOUNT ILST
		CORRETTION	

SPEED (KNTS) DIR.	1-3	4-4	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	40 - 55	≥54		MEAN WIND SPEED
N	3.0	2.0		. 2								6.8	5.0
NNE	1.0	1.3	. 3									2.6	4.6
NE	1.7	3						L				1.3	7,*
ENE		• 5	• 3									1.0	4.5
	1.3			- 3					Ι			2.4	5.€
ESE	. 5.	1.9	1.6	• 3								9.5	6.1
SE	1.0	1.5	1.5	1.5	3			I			1	4.1	5.4
SSE	1.3	2. 5	5.2	1.9								11.3	7.4
\$	3.9	4.5	7.4	4 4	3							20.5	7.6
SSW	9.5	2.9	1.3	• £								9.4	4.7
SW		3										2.4	2.4
WSW	3 4 12											1.3	7.3
w	4											1.3	5.3
WNW	. 6.	. 3		. 6								1.	6.0
NW	•	1.0	, <i>i</i> ,			L						1.5	5.5
NNW	la!	1.3	1.6	. 6								5.7	6.7
VARBL								L					
CALM	><	$\times$	><	$>\!\!<$	><	$\geq \leq$	><	$\geq <$	$\geq \leq$	$\supset <$	> <	19.0	
	24.5	22.3	21.6	11.3	6	3_						130.0	Sal

TOTAL NUMBER OF OBSERVATIONS

710

SMOS

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## SURFACE WINDS

## PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

5.79.1	BALLAS, TY	73-52		007
STATION	BRAN MOYATE		YEARS	<b>#O</b> MTH
		ALL WEATHER		03
		CLASS		HOURS (LST

SPEED (KNTS) Dir.	1 - 3	4.6	7 - 10	11 - 16	17 - 21	22 · 27	28 - 33	34 - 40	41 - 47	40 - 55	≥54	*	MEAN WIND SPEED
N	2.3	10:	3.6	1.3								7.4	6.0
NNE	1.7	٥.	1.									7.9	4.6
NE												1.0	8.3
EME		. 6		<b>,</b> €.		L						1.5	7.2
ŧ	1.	1.3	1.0									3.5	4.6
ESE		. 3	• 3						L			1.5	3.8
S#	1.	1.0	1.05	1.3								5.0	7.3
345		2.3	4.2	1.5								8.7	8.0
8	, ,	4 11	8.4	4.7								71.3	7.4
\$\$W	5.5	4 . 1	2.3	. 3								13.9	4 . 4
\$W	2.9		2									3.5	3.2
WSW												1.5	1.7
	1											1.0	5.0
WNW	. 7	1.0		• 7					<u> </u>			1.5	5.0
NW		1. ~										1.0	4.5
NNW	1.5	1.5	1.3	ن و		<u> </u>	L		L			5.2	5.9
VARBL													
CALM	$\searrow \langle$	$\geq \leq$	$>\!\!<$	$>\!\!<$	$\geq \leq$	><	$>\!\!<$	$>\!\!<$	$>\!\!<$	$>\!\!<$	$>\!\!<$	18.7	
	24.3	21.9	22.9	10.6								100.0	4.9

TOTAL NUMBER OF OSSERVATIONS

310

SMOS

#US GP0 1984 741 3

## SURFACE WINDS

## PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

STATION	STATION NAME	73-97 YEARS	OCT MONTH
	ALL WE	EATHER	HOURS (LST)

SPEED (KNTS) DIR.	1 - 3	4+6	7 - 10	11 - 16	17 - 2)	22 · 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	*	MEAN WIND SPEED
N	2.5		1.	. 3	• 3	• 3						3.2	7.2
NNE			. 3	_ 3								2.3	5.3
NE	1.00	3									<u> </u>	3.2	4.7
EME	1.5		1.						<u> </u>			2.4	4.8
l l			. 6								<u></u>	1.0	5.0
ESE	<u>ت</u> م ت	2.5						<u></u>		<u></u>	<u> </u>	5.5	4,4
SE	نمذ	1.9	- 6	شعنا						L		5.5	7,1
SSE		2.5	9.5									2.4	7.4
5	7	4.5	5 a C	2.6								15.0	7.3
SSW	3. "	2.6	2.4									8.7	4.7
SW	1.		. 3									4.5	2.9
WSW	2.6	a ž										3.5	2,4
W			7								<u></u>	. 3	7.C
WNW		. t.							L			1.5	5,7
NW		1.3	1.6	. 3					L			4,5	7.1
MMW	1.5	1.3	1.3	• 6								5.0	5.6
VAREL										L			
CALM	$\boxtimes$	$\times$	$>\!\!<$	$>\!\!<$	$>\!\!<$	$>\!\!<$	$>\!\!<$	$>\!\!<$	$\geq \leq$	$\geq \leq$	$\geq \leq$	1.3	
	25.1	22.6	13.2	5 . 4	- 3	. 5						100.0	4.6

TOTAL NUMBER OF OSSERVATIONS

311

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\$U.S. GPO 1984 741 348

## SURFACE WINDS

#### PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

170 :	DALLAS, TY	73+32	oc*
STATION	BEAM POITATE	YEARS	OMT II
		ALL MEATHER	p•
		CLASS	MOURS (L S T
	<del></del>	COMBITION	<del></del>

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	44 - 55	≥56	*	MEAN WIND SPEED
N	• ′	1.0	3,5	1.5	<i>y</i> .							7,7	8.5
NME		1.0	. 3	3								2 et	5.4
NE		1.0	يدُ و									1.7	5.3
BHE		. 3	• 8.	. 5								2.3	7.9
	1.4	1.0	1.0									4.2	4.9
232	4.3	1.2	1.7										6.4
SE	1.5	2.3	1.7	1.3								6.5	5.4
\$\$£	1.7	2.0	3.2	1.3	. 3				I			10.6	6.5
8	2.5	4	9.7	4.2	. 6							21.6	8.2
\$\$W	2.6	2.3	1.5	103	. 3							8.4	5.9
\$W	1.0	1.7	• (									4.5	4 . 2
WSW			7									1.0	5.3
w		1.6		• 3								1.3	0.3
WNW		1.	. 5	. 3								1.7	2.7
NW	1.0	. 6			. 3							2.0	7.6
NNW	. 6	1.7	1 • 2	1.7								9.4	3.0
VARSL													
CALM	$\boxtimes$	$>\!\!<$	$\times$	$\times$	$\times$	>>	> <	> <	> <	$\supset <$	> <	13.	
	15.7	24.5	25.1	13.2	1.9							170.0	6.1

310

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## SURFACE WINDS

#### PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

STATION	STATION HAND	73 = 2 ? YEARS	G C T
	<del></del>	ALL SEATHER	NOVEL (C. S. Y.)
	<del></del>	COMPLYION	

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	*	MEAN WIND SPEED
N	1.3	2.3	1.2	3.2	.6							9.4	9.
NNE	خ م	let	3	16.								3.5	6.0
NE	3	1.6		1			<u> </u>					2.5	6.6
ENE	7	1.2	1.3									2.5	6.6
£	3.6	1.3	1.6					L		L		4.2	4 . 1
ESE	1.1	1.5	1.3					<u> </u>				4.6	4 .
SE	1.7	1.5	1.3					<u> </u>				4.2	3.
SSE	7.7	4.5	4 . 2	1.5								13.5	5.
\$	3.2	3.9	3.1	10.0	1.5							26.1	9.
55W		1.0	1.7	2.3	3				<u> </u>			5.5	٠,
5W		1.6	1.3				L					2.9	5.
WSW	7	3	- 5						L	L		1.3	<b>\$</b>
	2		1.		. 3							3.2	6.
WHW_			•6	. 3			L	[				1.6	7.
NW			1.0	. 2			L					2.5	7.
MMM	. 6	1.2	2.3	1.6								3.5	
VARSL													
CALM	$\geq <$	> <	$\supset <$	><	$\supset <$	$>\!\!<$	$>\!\!<$	$\geq <$	$\geq <$	$\searrow$	$\geq \leq$	5.*	
	17.7	25.5	28.7	20.C	2.3							170.0	7.

TOTAL NUMBER OF OBSERVATIONS

#U.S. GPO 1984 741 348, 201

## SURFACE WINDS

#### PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

	CALLAS. T.	73 <del>-</del> 31	* r *
STATION	STATION NAME	YEARS	· JRT#
		CLASS CHARGE	Nowae It s T
		CONSTRION	

SPEED (KNTS) DIR.	1 - 3	4-6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	46 - 55	≥56	*	MEAN WIND SPEED
N		2. ?	۲.7	1.5	43							11.2	2,4
NNE	•	2.3	1.2		. 3							4.2	6.5
NE	1.5	1.	1.3	. 3								3. 7	6.
EME	•			. 5								1 . 3	5
E	2.3	1.5										9.5	0.0
ESE	2.3	2	1.					T				6.1	4 . 5
812	7.9	Z• 7	1.3	. 3								7.4	4.7
356	3	1.3	6,5	4.2	. 3							1400	6.1
\$	10.2	4.5	6.7	6.5	• 5							77.5	7.3
SSW	, 1	• 6	• 6)	1.6	• 3	1		I				J	10.5
5W		•	- Α	• 3								1.7	7,0
WSW	,	1.3	. 3									1.9	4, 1
W	• 7:	. 3			. 3							1.3	6.5
WHW	•	. 3	e b									1.3	2.0
NW	1.5	1.3	1.5	1.3								4.5	7.2
NHW	• 6	1.7	1.7	1.9				I				N . 9	٤٠٠
VARSL													
CALM	$\supset <$	$\times$	$\supset <$	><	$>\!\!<$	><	><	$\supset <$	$>\!\!<$	><	><	5.4	
	15.4	24.5	20.4	19.3	2.3	. 1	]			}		100.0	7.1

TOTAL NUMBER OF OBSERVATIONS

310

SMOs

#US, GPO 1984 741 348/201

## SURFACE WINDS

#### PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

97A 1 100	<u> </u>	MATION WOT	7.	-34	YEARS		OCT
W61-		***************************************	ALL WEST	4 <u>೯</u>			19
	<del></del>		CLAM			_	HOURS (L S Y
			600017:00			_	
	_				<del></del>	_	
_							

SPEED (KNTS) DIR.	1 - 3	4 · 6	7 - 10	11 - 16	17 - 21	22 - 27	26 - 33	34 - 40	41 - 47	40 - 55	≥56	*	MEAN WIND SPEED
N		2.6	1.00	2.3								8 . ?	7.5
MME		la6	1.2									5.2	4 . p
NE	1.0 7	1.2	3									3.5	4.0
3148	1	1.0	-				i .					3.2	3.6
ŧ		4 . 2	2									9.7	3.6
183		7.4	1.2									7.6	• 6
SE	2.3		1.2									11.3	6.3
206	i.:	3	6.45	1.0								13.5	7,7
8		7.	2	1.3								12.2	5.3
SSW		10:	7									3.2	\$ . 0
\$W												. 7	1.0
wsw		نه										1.3	3.3
w												• É	4.0
WW		1	7									1.00	4.4
NW		1.6	٤	3	• 3							3.2	7.4
WW	1	1.	7.		3							5.3	6.5
VARM													
CALM	$\times$	>>	$\times$	$\times$	>><	><	> <	><	><	><	$\times$	8.4	
	27.7	3302	13.7	5.4								100.c	5.2

TOTAL NUMBER OF OBSERVATIONS

SMOS

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## SURFACE WINDS

# PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

70 ·	MALLAS. Tr	73-47		nci
STATION	STATION NAME	<del></del>	YEARS	HOMPH
		BLE MEATHER		21
		CLASS		HOURS (L S T
		Compition		

SPEED (XN75) DIR.	1.3	4.4	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	*	MEAN WIND SPEED
N		7.3	₹,;	. 7								7.7	6.1
NNE		غ	1.5									4 . ?	4.4
NE	1	. 3										1.3	2.8
ENE	• :	1.1				<u></u>						1.5	4.0
	1.	2.3	1.7						ļ			4.5	4.4
ESE	1.	7.3	5.6							<u> </u>	<u> </u>	6.5	5. a R
58		•	5	2.3						<u> </u>	<u> </u>	14.2	7.2
358	• ′	2.5		1.7	.,,		<u></u>				L	10.5	F . 3
	•	<u> </u>	3,?	101	• 3					<b></b>	<del></del>	13.5	£ 9
25W	7.4	1.		. , ,								3.4	3.5
sw	10'	• 3									<b></b>	104	? • ?
WSW	• 7									<b></b>	ļ	• }	2.5
w			•								<b></b>	1.	5.0
WHW		• 5	• 7						ļ	ļ	<u> </u>	1.	5.3
NW	7	10.7		• 7				L	<b> </b>	<b></b>	<b></b>	2.3	<u> </u>
NHW		1.	1.	• 3	. 5		<b> </b>		<del> </del>	<del>  </del>	<del> </del>	5.5	4 . 5
VARBL	Ļ.,		<u> </u>				<b>-</b> -			<b>_</b>	<b></b>	<b></b>	
CALM	$\geq \leq$	$>\!\!<$	> <	> <	> <	> <	$\geq \leq$	$\geq \leq$	$\geq \leq$	$\geq \leq$	$\geq \leq$	25.	
	21.	25.2	24.5	6.5	1.3	. 3						100.0	5.0

TOTAL NUMBER OF OSSERVATIONS 310

SMOS

## SURFACE WINDS

# PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

STATION	STATION NAME	<u> </u>	YEARS	#ORTH
	<u> </u>	ALL SELTHES	<del></del>	HOURS (L S Y
	<del></del>	CONDITION		

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	•	MEAN WIND SPEED
N	1.0	2.1	3.3	1.5	?							7.5	7.3
NNE	1.2	1.2		72	- 5							7 . 4	5 • ?
NE	7	.;	نو									2.5	5.1
ENE											<u> </u>	2.1	5.5
ŧ	1.5	1.7										4 . 4	4 . 4
ESE	100	2.2	1.7				<u>'</u>			İ		5.1	5.0
SE	: • *	2.:	7.1	1.1	• `	• '						7.5	4.6
SSE	1.	2.0	4.	1.5					ļ		<u> </u>	11.4	7.4
<u> </u>	2.2	40.5	6.3	4 . 4	4						<u> </u>	17.4	7.9
SSW	2.	2.2	1.2	نه							<u> </u>	7.0	5.9
SW			- 45						ļ				3,9
wsw											<b></b>	اتعلال	3.0
<u>w</u>												1.2	÷ . p
WNW			<b>a</b> "	<u> </u>								1	5.3
NW	•	للعنب	• -						ļ			3.	4.00
NNW		1.4	1.5	1.						<b></b>		F. 5	7.5
VARBL										k		4	
CALM	><	> <	> <	> <	$>\!\!<$	$>\!\!<$	$\geq \leq$	$\geq \leq$	$\geq \leq$	$\geq \leq$	> <	14.1	
	, ,	25.0	24.5	11.7	1.2	• .						1,10.0	5.6

TOTAL NUMBER OF OBSERVATIONS 74 25

SMOS

\$US GPO 1984 74

## SURFACE WINDS

## PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

	CALLAS, Tr	77-47	NOV
STATION	STATION HAME	YEARS	MONTH
		CLASS CLASS	HOURE (L S T
		COMPITION	

SPEED (KNTS) DIR.	1 - 3	4.6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56		MEAN WIND SPEED
N	•	2,	17.	?•								6.	7.5
NNE	i.,											2.7	3.5
NE	•											1.7	4.7
ENE	•	. 1							l			1.	2.3
ŧ	• 1	ا ا							L			2.	3.4
ese		1.	• 7	ł								2.7	4.1
SE		1.	1.7	1. 7	. 3							4.5	5.5
SSE		2.3	7.	1.3								7.	3 • 3
\$		I		3.7	1 .							1 - •	5.6
\$\$W		3.7	1.7	1.2								10.	5.43
SW		• 3										•	2.5
WSW		, ,							L			• '	3.0
w	• /	1.1	•	• "					<u> </u>			î •	6.4
WNW	7	1.	1.	1.0					L				7,4
NW		4,	1.7									7.	5.3
NNW	•		, ,	1.7								7	3.0
VARBL									L				
CALM	$\bigcirc\!$	$\times$	><	$>\!\!<$	><	><	><	><	><	$>\!\!<$	><	10.	
	7.7	70.5	15.7	13.7	1.3							1'C.	5,6

TOTAL NUMBER OF OBSERVATIONS

170

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**#**U.S. GPO 1984 741.348 201

## SURFACE WINDS

# PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

STATION	ALLES TY STATION HARE	7 V m. E	MENY
	4L 33	S 1 145 7	HOURS (L.S.Y.)
		MBITION	

SPEED (KNTS) DIR.	1 - 3	4-6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	*	MEAN WIND SPEED
N	1.2	7. 7	2.7	7.3								9.3	7.3
NNE	1.7	1.7										3.	4.1
NE	1	1.7										2.7	3.6
ENE	3		. 7									1.0	5.7
E		7										1.7	8.0
ese	1.0	~										107	4,4
38	7	*	1.	. 3				Ĺ				4,5	6.4
SSE		3. 7	7.7	7_								5.3	7.2
\$		5.3	5.0	2.3	3	Ĺ		l				17.5	9.1
SSW		3.	1.7	1.3	3							9.0	6.8
\$W		7										2.7	3.4
WSW													2.0
W		?										1.0	7.5
WNW	7	2.1	1.7	. 7								5.	7.9
NW		1.7	1.	1.0		Ī						* • * •	501
NNW		1.7	7.	1.3		I						1,	Lat
VARBL												1	
CALM		$>\!\!<$	><	><	$\geq \leq$	><	$\geq \leq$	$\geq \leq$	$\geq \leq$	><	><	15.	
	27.3	26.2	21.3	12.0	1.0		}					170.5	5.4

TOTAL NUMBER OF OBSERVATIONS

3.00

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JS GPO 1984 741 348

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## SURFACE WINDS

#### PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

0.7971	CALLAS, YK	73-A2	_ NOV _
STATION	STATION MARK	TEARS	HTHOM
	ALL AE	ATHER	36
	Ę		HOURS (L.S.T.)

SPEED (KNTS) DIR.	1 - 3	4 - 4	7 - 10	11 - 16	17 - 21	22 - 27	26 - 33	34 - 40	41 - 47	48 - 55	≥56	*	MEAN WIND SPEED
N	1.	1.0	20.2	1.7								5.7	7.9
NNE	. ;	1.7	1."									3.	€,0
NE		. 7										1.0	3,7
ENE	1.7	. 3	Ţ	• 3								2.3	4.1
		1.5										1.3	4.0
ESE			1.0									1.3	4.5
3.6	-	2.7		. 3								5.0	5.1
358		7.3	2.3	2.0								7.7	6.0
5	7. ?	4.7	4.	1.0								16.0	6.9
SSW	2.7	2.3	1.3	1.5								7.3	6.1
3W	3.7	. ?		. 3								4.C	3.4
WSW	1.7											1.2	2.0
w	1.7	1.3	₹.	. 7		-						3.3	5.5
WWW		1.3	1.3	7	3							4.3	9.1
HW	• 7	• 7	1.3	1.7								4.3	9.6
MW		2. 7	7.3	2.0								8.7	7.5
YAROL	I												
CALM	$\supset \subset$	> <	$\supset <$	> <	>>	> <	$\supset <$	$\supset <$	> <	$\supset <$	$\supset <$	72.7	
	25.2	23.3	22.7	11.7	. 3					}		130.0	5.1

TOTAL NUMBER OF OBSERVATIONS 3

**SMO**(

AS SOM

## SURFACE WINDS

#### PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

STATION	STATION NAME	13-82	YEARS	NO V
		SLL SEATHER		HOURE (L.B.T.)
		CONDITION		

SPEED (KNTS) DIR.	1.3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	40 - 55	≥56	*	MEAN WIND SPEED
N	1.7	3.2	2.7	2.3								9.7	7.9
NNE	2	1.3	1									2.3	5.7
NE	7			. 7							_	2.3	7.1
ENE	ادمد	. 3										1.3	2.5
ŧ		147	-3									2.0	5.2
ESE	1	1.0	7									2.0	5.8
SE	1.1	2.0	2.7									6.0	5.5
382	1.2	2.3	7.5	1.7								7.7	4.9
\$	202	4. 3	7.3	5.3	. 3							21.3	7.5
SSW	2.7	305	2.1	1.7								9.7	5.4
SW	تمد		. 7	. 3								2.0	6.2
WSW												1.3	9.8
. W												1.0	4.7
WWW		7	2.5	1.0	-							4.3	13.4
HW	,	1.3	2.	1.3								5.4	7.6
HWW	1.	1, 7	1.7	5.3								6.7	10.0
VAROL													
CALM	$\supset <$	$>\!\!<$	$>\!\!<$	><	$>\!\!<$	><	><	$\supset <$	$\supset <$	$\supset <$	>>	12.7	
	17.7	23.3	25.7	20.3	1.3							100.0	6.5

TOTAL NUMBER OF OSSERVATIONS

300

SMOS

## SURFACE WINDS

#### PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

4.7901	CALLAS, To	73-42		NOV
STATION	STATION MADE		YEARS	HONTH
		ALL WEATHER		1?
		CLASS		NOVES (L.S.T.)
		COMPITION		

SPEED (KNTS) DIR.	1 . 3	4.6	7 - 10	11 - 16	17 - 21	22 - 27	20 - 33	34 - 40	41 - 47	48 - 55	≥56	*	MEAN WIND SPEED
N		3.	2.3	3.5	. 7							9.0	9.7
NNE		1.3	• •	. 3								2.7	5.6
NE	7	1.3	,	.7								3	7.3
ENE	1.0		• :									1.5	4.5
ł	1	1.7	.3									3.0	4.2
ESE	1.5	, ?	1.	. 7								3 . 3	3.3
\$12	1.	1.	1.0	. 3								4.0	3.1
552	11.8	3.2	2.3	2.3								12.0	6.0
\$	7.	1.7	5.3	4.7	1.3							79.0	10.5
SSW	,,	1.	2.3	2.5	• 7							5.7	9.7
SW	. 7	1.7	•	. 3	. 3							3.0	7.5
W\$W		1.3	•7		. 3							2.7	6.9
W	7	1.7	1.3	. 3						<u> </u>		4.0	5.4
WNW		1.2	1.3	-2.3	.3		1			<u> </u>		5.0	9.8
NW		3.7	3.0	2.3	.3							6.7	9.4
NNW	. 3	10 7	2.7	3.7								7.	10.0
VARDL													
CALM	$\supset \subset$	$>\!\!<$	> <	> <	> <	> <	$\supset <$	$\supset <$	$\supset <$	$\supset <$	> <	6.7	
	14.7	23.7	25.3	25.7	4.0							130.0	7.8

TOTAL NUMBER OF OSSERVATIONS

300

## SURFACE WINDS

#### PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

SYATION	STATION HAME	73 = 42	NOV
	eli ne	A Lake	NOVES ILS T

SPEED (KNTS) DIR.	1 - 3	4-6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥\$6	*	MEAN WIND SPEED
N	1	2. ?	2.7	3.0								7.7	8.6
NNE	1.7	3.3	2.0									5.0	<b>k</b> • 1
NE								<u></u>				. 3	5.0
ENE				. 3								1.3	5.0
£	3	1.7										2.0	4 . 2
ESE	1.0	2.0										3.7	4.6
SE	لتما	2.3	2.7		7	L		L				6.7	6.4
SSE	2.0	4.0	4.7	2.7								13.7	7.1
\$		2.5	3.7	8.0	2.0	1						18.0	13.7
85W		. 1	3.0	. 7	. 3							5.0	9.1
SW_	7		1.7	3					l			2.3	7.4
WSW	7	-1	2.3	1.2								4.2	5.2
	. 7	1	1	1.3			Ĺ			L		3.0	8.1
WNW	-	. 3	1.	1.3				I				3.	9.2
NW	1.3	1.3	1.7	2 a ii		. 3						6.3	8.5
NNW		1.7	3.	4.3	• 1							9.	11.0
VARBL													
CALM	$\supset \subset$	><	> <	><	>>	$>\!\!<$	><	$\geq <$	><	$\supset <$	><	6.7	
	14.5	20.0	30.3	25.0	3.0	7						100.0	7.3

TOTAL NUMBER OF OBSERVATIONS

## SURFACE WINDS

#### PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

STATION	STATION MARK	73=R2	MCA MCA
		ALL MESTHE?	NOVES (LST)
		COMBITTON	

SPEED (KNTS) DIR.	1 - 3	4.6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	*	MEAN WIND SPEED
N	,,,	4 . 5	ij., ^	1.7								12.5	5 . 8
NNE	1 1	1.3		7								3 . 3	6.3
NE	1.7	. 3										1.3	2.5
BHE	1.7	_ 3										2.0	2.8
	2.0	2.3										5.3	7.1
232	7.3	3.	• 3	. 3								7.3	4.3
\$ <b>1</b>		4,7	1.7	• 3								8.7	3.2
542	7	3. 7	4.7	. 7								13.7	6.0
	3.3	1.7	3.3	2.7	. 3							11.3	7.5
\$\$W		1.3	.;									2.7	4.0
5W	- 3	• 3	• 3									1.0	5.6
W\$W			. 3									.7	5.0
w	10.	7		. 7								2.0	4.7
WNW	اخد ا	. 7	1.	7	3							3.0	8.4
NW	1.5	107	3.0	1.0								6.7	7.3
MNW	تعا	Sati	7.	1.3						<u> </u>		9.7	6.5
VARM												<b></b>	
CALM	> <	$>\!\!<$	$>\!\!<$	$>\!\!<$	$>\!\!<$	$>\!\!<$	$>\!\!<$	$>\!\!<$	$>\!\!<$	$>\!\!<$	$>\!\!<$	9.7	
	25.7	32.7	22.1	2.0	. 7							120.0	5.3

300

**SMO**S

## SURFACE WINDS

## PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

STATION -	FATTON HARE	13-02 TEAM	M C V
	ALL	EA1HED	21
		Martin	-

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	40 - 55	≥34	*	MEAN WIND SPEED
N	9.0	1.7	7.	2.3	. 3							12.5	5.6
NNE	7	1.7	7	- 3								3.3	A.C
NE	Ĺ	L											
ENE	1.3	1.0										2.3	3.4
ŧ	1.3	1.1	1.0						[			3.3	4.3
ESE	1.3	1.7	1.7	. 7								5.3	6.1
SE	. 7	7	2.7	. 7								4.0	7.4
SSE	2.3	\$	7 . 1"	2.0								12.3	6.5
\$	7.3	5.3	4.7	2.3	ئىما							16.7	7.4
SSW	1.7	1.7	5	1.0								4,7	5.6
SW	2.3											2.3	2.0
wsw												. 3	3.2
w	1.5	7										2.3	5.0
WHW	4	7	. 7	1.0								2.3	9.3
NW	1.07	Z. 0	2.3	- 3								6.3	6.2
NNW	2.2	1.7	2.5	.7								7.7	5.7
VARBL				<u> </u>									<del></del>
CALM	>>	$\times$	$\times$	$\supset \subset$	$\times$	$\times$	$\times$	$\geq$	$\supset$	$\sim$	$\sim$	15.0	
	25.5	26.3	20.7	11.7	1.3							100.0	_ 5.4

#### PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

STATION	STATION NAME	TY = 52 YEARS	NO V
f	ALL PF	A Y-LE =	MOURE (L.S.Y.)

SPEED (KNTS) DIR.	1 - 3	4-6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	*	MEAN WIND SPEED
N	1.5	2. 2	2.7	2.1	• 2							9.7	7.6
NNE	_ 0	1.3	_•.7	. 3								3.2	5.6
NE		. ?	• 2	. 2								1.5	5.3
ENE	1.7	• 3	• 2	• 1								1.6	3,4
£		1.1	• 7									2.5	4.1
282	1.7	1.2	. 7									3.4	5.1
SE	1.3	1.5	1.*	, 4	• 1				I			5.3	6.2
35E	1.5	3.7	3.1	1.7								10.3	6.6
\$	7 . :	3.5	5,7	4.4	• £	-						17.3	4.
\$\$W	1.7	2.1	1.6	1.1	4.2							6.0	6.0
SW	3.7	. 4	9	- 2	<b>c</b> :							2.5	4 . !
WSW		- 2	4	- 2	n							1.7	3.0
W	7		• 5	. 5								2.5	6.
WNW	4	9	1.3	1.0	. 2							3.4	8.4
NW	1.1	1.5	1.3	1.2	۵		<u> </u>			<u> </u>		6.1	7.
NWW	1 . 4	2.2	2.1	2.*	.0							0.1	3 . 7
VARBL								l	L				
CALM	$\triangleright\!\!<$	$\times$	$>\!\!<$	$>\!\!<$	$>\!\!<$	$>\!\!<$	><	$>\!\!<$	$>\!\!<$	><	$\geq \leq$	13.7	
	20.0	25.0	23.5	16.1	1.6	• 1						100.0	6.

TOTAL NUMBER OF OSSERVATIONS

2400

### SURFACE WINDS

## PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

STATION	STATION HAME	73-32	YEARS	DiC
	<del></del>	ALL WEATHER		NOUNE (L S T
		COMBITION		

SPEED (KNTS) DIR.	1 - 3	4-6	7 - 10	11 - 16	17 - 21	22 - 27	20 - 33	34 - 40	41 - 47	40 - 55	≥54	*	MEAN WIND SPEED
×	1.6	2.3	2.0	2.9								9.7	3,2
NNE	1	5.		3								1.3	6.8
NE		. 7			3	L		L				1.	6.7
ENE					L								
E.	1.0	1.3										2.3	3.7
ESE	<u> </u>		1.0									1.6	7.3
SE	100	2.3	1.9			ļ		L				5 . 5	5.1
SSE		1.0	2.3	1.8								6.3	8.1
5	2.3	3.0	5.5	7.1	3							19.0	9.0
SSW	7.2	3.4	تعمل	1.3								15.0	5.3
SW	2.9	1.0	5					ļ				***	3.5
W2W	1.0		- 3			Ļ		<u> </u>				1.05	4.4
w		1.3		t:		ļ						3.2	7.2
WNW	7	3_	1.				L					1.9	4.3
NW	1.6	2.9	3.5	1.3		ļ		<u> </u>				G . 4	6.8
NNW	1.07	1.9	3.3	1.0	1.0	l	<u> </u>	<u> </u>		<u> </u>		8.1	8.9
VARSL								<u> </u>		L	Ļ		
CALM	><	$>\!\!<$	> <	> <	$\geq \leq$	$\geq \leq$	$\geq \leq$	$\geq \leq$	$\geq \leq$	> <	><	13.9	L
	19.4	24.5	23.9	17.7	1.6							100.0	6.2

TOTAL NUMBER OF OBSERVATIONS 3 1 C

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#U.S. GPO 1984 741 348/201

## SURFACE WINDS

#### PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

STATION	STATION NAME	73-82	YEARS	D C C
		ALL REATHER	<del></del>	HOVES (L.S.T.
		COMOTTION	<del></del>	

SPEED (KNTS) DIR.	1 - 3	4 · 4	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥54	*	MEAN WIND SPEED
N	1.5	7.0	2.5	2.6	6							10.0	9.2
NNE	٧٠١	- 4							<u> </u>	ļ		2.6	3.4
NE					<u> </u>					ļ		1.3	4.3
SME	. 7		. 1			<u> </u>	ļ		<b></b>	<u> </u>		. 6	5.8
												.6	2.5
ese	,	1.2	5							<b>.</b>		2.3	5.6
SE				3					<b></b>	ļ		3.6	5.2
226	- 6	4.3	تعلا	100					<b></b>	<b></b>		8.1	6.8
8		3.5	5.e.	5.5					ļ			17.7	8,9
SSW	3.5	5.5	3.2	1.0				<del> </del>				13.2	5.6
\$W	3.6	1.3								<b></b>		3.7	2.8
WSW	1.6	• 3	نه									2.5	2.5
<b>W</b>	10.	. 6							<b></b>			2.3	3.0
WWW		1.7	1.6	1.7		ļ		ļ				5.2	7.7
NW	دو	1.5	ے ما	1.9					L			5.:	9.4
NNW	• •	4.2	2.3	1.9		<u> </u>			<b></b>			9.7	7.6
VARBL													
CALM	$>\!\!<$	$>\!\!<$	$>\!\!<$	$>\!\!<$	$>\!\!<$	$\geq \leq$	$\geq \leq$	$\geq \leq$	$\geq \leq$	$\geq \leq$	$\geq \leq$	13.2	
	13.7	29,4	20.3	15.8	1.3	. 3						170.0	5.9

TOTAL NUMBER OF OSSERVATIONS

317

SMOS

### SURFACE WINDS

#### PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

STATION	STATION MADE	/ 3 = C. YEARS	DE C HONTH
		EATHER	D6 HOURS (L.S.Y.)
		WINTING I	

SPEED (KNTS) DIR.	1 - 3	4-6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	*	MEAN WIND SPEED
N	1.2	1. "	1.3	1.9								5 . 4	6.0
NNE				_ e é					[			2.3	5.4
NE		فه.										1.3	3.5
ENE			- 3									1.5	2.3
E	7											1.1	4.3
ESE	- 5	1.2	.6									7.6	5.3
SE	1.	2.3		a é								4.2	5.6
SSE		1.4	2.3	1.5								4.5	9.6
\$	. 4	4.5	649	3.2	1.0							18.4	7.9
\$5W	ے وا	4.2	2.9	1.0								11.3	9.7
sw	7.2	3										3.5	2.5
WSW	1.00							L				2.4	2.6
w	4	1.0										1.5	5.5
WW W		1.4	1.7	• 6								4.7	7.9
NW	1.5	1.0	1.3	2.0	. 3							8.1	3.4
NHW	7.	1.5	2.6	2.6	• 3							10.0	7.6
VARBL													
CALM		><	> <	><	><	><	><	><	><	><	><	14+4	
	21.5	26.8	20.3	14.6	1.5							100.3	5.0

TOTAL NUMBER OF OBSERVATIONS

315

SMOS

RUS GPO 1984 741 348

## SURFACE WINDS

## PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

1111	TALLAS, TY	73+83	ere
STATION	STATION HARE	YEARS	MONTH
		ALL DESTRET	<u> </u>
		CLASS	HOURS IL S T
		AND LOAD	

SPEED (KNTS) DIR.	1 . 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥54	*	MEAN WIND SPEED
N		1.	2.5	2.0	. 7							5.4	4.5
HHE		1.										2.3	3.3
NE	4.5							l				1.3	3.3
ENE	1.3	1.0	• :									2.0	4.5
ŧ	• 2	• 3										100	2.7
ese	3	1 0 '1					[					1 - ?	4.3
SE	ì	i • *	3.0	. 1				I				2.3	7.7
SSE	1.7	3.2	₹ .7	1.6								9.	7.3
\$	2.0	2.0	* •	5.1	.6							15.5	8.8
SSW		4.5	3.0	2.9	• 3							15.	7.2
SW												1.5	3.4
WSW			• ?									1.	3.3
w	1 . 7	1.0	• 3	1.3								7.0	2.3
WNW		• 3	• 3	• 6								1. "	10.5
NW	• :	1.0	7.	2.5	g li							0.7	10.0
MMW		1.7	5.6	1.9	• 6							10.6	3.2
VARM													
CALM	$\boxtimes$	$\times$	$\times$	$\times$	$\times$	$\times$	> <	><	$\supset <$	$\geq$	><	13.5	
	15	21.7	27.1	20.3	2.6			}				100.0	6.0

TOTAL NUMBER OF OSSERVATIONS + 1 7

SMO

## SURFACE WINDS

#### PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

STATION	A 1 2 S a T 1	YEARS	D C
	-11:	ef a fot€ or class	NOVES (C. S. T.
		CONSITION	

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 · 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	*	MEAN WIND SPEED
N	1.5	1.3	2.3	<u> ت</u> وو	1.7							1Get	12.1
NNE		2.5	1.1									4 . 4	6.3
NE		شم							L			1.5	- 503
ENE							! !		l			1.7	3.7
E			,								ļ	1.!	4.3
ESE		1.										1.4	
SE	1.	1.	1.7									4.5	4.0
SSE	1.	2	3	1.3	. 3							11.0	c . 7
5	1.		7	6.0	1.9	څه						19.7	11.0
SSW			1.	302	1.9							3.	11.5
3W		1.										2.5	9.0
WSW		1	1 . 7									2.7	6.9
. w	,	1.	1.7	1.7	3							5.2	10.5
WHW			1.7	1.5								4.5	ų, K
NW		1. 1	2.3	1.6	3							5.	15.1
HNW		•	7.3	20 02	į.							٠. ٠	10.4
VARBL													
CALM	$\supset <$	> <	><	><	> <	> <	$\geq \leq$	$\geq \leq$	$\geq \leq$	$\geq \leq$		4.5	
	1200	22.5	23.9	27.7	6.5	1.0						1.0.3	3.5

TOTAL NUMBER OF OBSERVATIONS

**SMOS** 

#US GPO 1984

## SURFACE WINDS

#### PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

STATION	STATION HAME	13-3;	ARS NONTH
		TEE JOATAET	NOURS (LS T
		CONSITION	

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	•	MEAN WIND SPEED
N		2.	<b>7.</b> (	2,								12.)	9.4
NNE			Ä									<u> </u>	i , 11
NE										1			2.5
ENE		• •	• 7									1.	: •
ŧ	1.	1.1						1					3.7
ESE		1.	1.									7 • 2	4.08
SE	1.	7.3	• 1									4.2	5.4
SSE	1.	10'	7.0	2.5		• .						J	4
S		3 , 5	( • =	¥ . 7	1.6				I			1.	1 .1
SSW			- +1	1.00	1.7							<b>₹.</b> €	11.3
sw		• *	1.5	<b>.</b> €.								3	7.
WSW	• ′	1 • 2		1.7								2.3	•
w	<b>.</b> 6	1.	7.0	1.6					I			5.1	5.5
WNW		• 1	1.7	2.3	3							4 . ?	11.5
NW		1 • -7	1.6	2.5	_ • 6							6.	1 • 2
NNW			4.5	₹.5	• 3							3.4	1 .5
VARBL													
CALM		$>\!\!<$	> <	$\supset <$	> <	$\supset \subset$	> <	$\supset <$	><	$\supset <$	> <	5.	
·	13.5	1	32.4	27.7	4.8	. ,						1 9.	a , t

TOTAL NUMBER OF OBSERVATIONS

310

### SURFACE WINDS

## PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

212-1	MALLA TE	17+72		
STATION	BHAN HOITATE		YEARD	MONTH
		ALL WEATHER		1.0
		CLASS		HOURE (L.S.T.:
		COMPITION	<del></del>	

SPEED (KNTS) DIR.	1 - 3	4-6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	*	MEAN WIND SPEED
N		2.3	1.5	3.2								13.7	7.6
NNE	3.7	1.5	. 3									5.2	4,5
NE	1.1	- 6										1.5	3.5
ENE	104	1.3		. 7					L			3.5	4 . 1
ŧ	2.4.	. 5	1.0									4.2	4.
ESE	1.3	Ta Z	. 3									4.4	4 , 9
SE		3.9	206	. 3								8.1	5.1
SSE	2 5	4. 4	1.2	2.3					<u> </u>			11.7	6.8
<u> </u>	2.	7.0	r.2	3.2								14.7	7.1
SSW		103	7									2.3	5.0
sw									<u> </u>		·	• •	5 g i
wsw	1											1.3	3,
_w	انمنا	العلا			. 6	•						3.0	8.5
WNW		102	105	7.			<u></u>	ļ	İ			3.4	6.4
NW		2.5	1.2									4.7	7,
NHW	1.7	1.5	4.5	3.2	3			ļ	L			12.5	9.
VARBL	Ĺ							L					
CALM	><	$>\!\!<$	$>\!\!<$	$>\!\!<$	$>\!\!<$	$>\!\!<$	$>\!\!<$	><	><	$>\!\!<$	$>\!\!\!<$	9•1	
	23.9	31.1	20.4	17.7	1.3	. 3						170.0	5.5

TOTAL NUMBER OF OBSERVATIONS

350

SMO8

## SURFACE WINDS

## PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

STATION	CALLSS TY STATION HAME	75 = 32 YEARS	DEC
		ATHER	21

SPEED (KNTS) DIR.	1 - 3	4.6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥54	*	MEAN WIND SPEED
N	1.	2.	1.7	2.3	9.5							7.4	8.8
HNE	1.5	• 5	1.									3.2	4.4
NE												1.0	4.3
ENE	. 1											• 3	2.0
E	1	1.	• :									2.6	3.8
ESE	-,	1.0	1.3	• 3								4.2	6.[
SE	3.	1.7	1.0	. 6				L				4.5	6.0
5\$E	1.7	3.0	9.7	1.7								13.7	7.3
\$	2.0	4 . ?	2.7	6.5	. 6				I			18.8	8.2
SSW	3.2	2.5	. 3	1.			Ī					7.1	4.3
SW	1.0		,									10:	3.0
wsw	1.7	3										1.5	3.2
W	• ^	1.	۲.						L	l		1.3	4.5
WNW		2.3	. 6	• 6						L		3.5	6.5
NW	. 6	1.0	1.5	• (								5.3	8.5
NNW	1	2.9	4.2	3.2								11.3	2.2
VARBL													
CALM	$\supset <$	> <	> <	$\times$	$>\!\!<$	$>\!\!<$	$>\!\!<$	$\triangleright \!$	$>\!\!<$	$>\!\!<$	> <	19.7	
	12.1	26.9	20.7	17.2	1.9							100.7	5.0

P D E SHOITAVESSEO TO ESSENUM JATOT

81408

S GPO 1984 741 348: 20

## SURFACE WINDS

## PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

STATION	STATION NAME	₹₹÷R2	O.S.C.
		FATHED	NOURS (L.S.T.)
		OM DITTON	

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 · 27	28 - 33	34 - 40	41 - 47	48 - \$5	≥56	*	MEAN WIND SPEED
N	1 . 4	2.5	2.4	2.3	· ·							5,7	5,6
NNE	1.1	1.0	, N	. 2								2.7	5.1
NE			-1		2.						<u> </u>	1.2	4.
ENE			7								L	1.3	4.
	101	. 7	- 3									2.6	3.
ESE		بعد				<u> </u>			ļ		<u> </u>	2.7	5.
S.F	1.0	1.0	20						<b></b>		ļ	4 4	
35E	107	3.4		1.7	0				<b> </b>			6.5	7.0
		3.6	5.6	5.0					ļ	<b></b>	ļ	18.4	9.6
_\$\$W	2a1_	2.5	2.3	la <sup>e</sup>					<u> </u>	<b></b>		2.2	7.
_sw	100			2			ļ			<del></del>		₹9€	4.
WSW	انعنا		. ڏه						ļ <u>-</u>		<b></b>	2.0	4.5
		لتعلب	7	- 6			<b></b>	ļ	<del> </del>	<del></del>	<del> </del>	3.4	7.
WWW		-lel	لتعلم	لتعلب			<u> </u>		<del> </del>			304	80
NW		1.2	2.1	<u>let</u>	3_			ļ	<del> </del>	<del> </del> -	<del> </del>	6.0	8.
New		?• <u>r</u>	3.4	2.6	- • •				<del> </del>	<del> </del>	<del> </del>	10.7	3.5
VARBL	<b>-</b>				<del></del>			<del></del>		<del></del>	<del></del>	<del>                                     </del>	
CALM	><	$> \!$	> <	$> \!$	> <	$>\!\!<$	$\geq \leq$	$\geq \leq$	$\geq \leq$	$\geq \leq$	$\geq \leq$	11.1	
	17.5	23.0	24.2	17.4	2.7	. 2						100.0	6.

TOTAL NUMBER OF OBSERVATIONS

#US GP0 1984 741 348-201

## SURFACE WINDS

#### PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

STATION STATION HARE VEARS HONTH

ALL SEATHER

CLASS

ROUSE (L.S.T.)

HOLLIGHOS

SPEED (KNTS) DIR.	1-3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥36	%	MEAN WIND SPEED
N	1.	2.0	2.0	1.4	• ?							,	٠.
NNE	1.0	1.2	• (	•	•							. 3	5.
NE	•	• 3	• 1.	. 1	• 1							. · · 1	ı,
ENE	•	•	• 1	• !								• 1	ζ.
£	1.7	•	: •	• ?	• 5							•	٥.
ESE	• 1		1.		•							•	
SE	1.		2.1	.,								7 • 3	
SSE			L . ^	2.2	•	•						12.3	7.
5	5.	7.1	7.6	€ €	. 7		•					71.7	
SSW	11	7.7	i •	1.	• :	_						7 . 3	
SW	•	• -	• 1	• •	• `	•	• :					J • 1	٥,
WSW	•	• -	•	• 1	• `	•						1. 1	5
w	•	• 1	•	<u>.</u> 4	• 1	•						1.	- 1
WNW		• 4				•						2 • 3	
NW	•	1 - 1	1.1	•	• ;							4.	•
NNW	• i]	1.	1.7	1 • °	• ?							3. • ·	-
VARBL													
CALM	><	> <	>>	><	>>	>>	$\geq \leq$	$\geq \leq$	$\times$	><	><	•	
	17.	6.	- 3	15.	1.3	7	• 0					1 0.0	6

TOTAL NUMBER OF OBSERVATIONS

11

**SMO**S

1888 2

## SURFACE WINDS

# PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

STATION	GALLAS . TX SYATION MAIN	7.5 - 8.2 VEARS	ALL				
	INSTRUMENT CLASS						
	CIG 200 TO 1936 FT W	YSBY 1/2 MI OR MORE.					

AND/OR VSBY 1/2 TO 2-1/2 HT W/CIG 708 FT OR MORE

SPEED (KNTS) DIR.	1.3	4-6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	*	MEAN WIND SPEED
N	1.2	3.	9	2.2								11.6	7.7
NNE	la T	2.2	1.7	K		• •						5.3	5.7
NE	3.0	1.2	7							<u> </u>		3.3	5.5
ENE		1.4	1.1	. 2				<u> </u>	<u> </u>	<u> </u>		3.5	5,8
E	1.4	.2.1	1.6	3	1							5.6	3.8
ese	3.4	2.2	1.5	a £	. 2					<u> </u>		5.8	6.7
SE	1.2	24.9	2.4	G	ده		L		<u> </u>	L		7.0	6. 2
55E	اتمنا	3.6	3.2	2.2				<u> </u>				11.0	7.7
\$	رمنا	2.4	5.7	3.6	. 4							14.4	4.4
35W			. 5	5	1				<u> </u>	<u> </u>		2.3	7,7
sw			1		. 0			<u> </u>		L	<u> </u>	9 3	4.5
wsw			1						l	L			5.3
w		7		. 3	-1				L	<u> </u>		2.1	7.5
WHW		• 7	1.2	1.1		ņ		<u> </u>				3.3	8.1
NW		1.1	2.2	1.7	• 2				L	<u> </u>		6.7	8.5
NWW		2 e r	3.5	2.8	• 3	• ^						10.1	8.7
VARM											L	I	
CALM	$>\!\!<$	$>\!\!<$	$>\!\!<$	$>\!\!<$	><	$>\!\!<$	$\geq \leq$	$\geq \leq$	$\geq \leq$	$\geq \leq$	$\geq \leq$	0.5	
	13.0	22.7	30.0	17.7	1.3	• 2						100.0	7.0

TOTAL NUMBER OF OBSERVATIONS 2557

SMO:

JS. GPO 1984-741 348

NOCD, Federal Building Asheville, N. C.

### PART D

#### CEILING VERSUS VISIBILITY

This summary is a bivariate percentage frequency distribution by classes of ceiling from zero to equal to or greater than 20,000 feet and as a separate class "no ceiling", versus visibility in 16 classes from zero to equal to or greater than 10 miles. Data are derived from 3-hourly observations, and three sets of tables are presented as follows:

- 1. Annual all years and all hours combined
- 2. By Month all years and all hours combined
- 3. By Month by standard 3-hour groups

Due to the cumulative nature of this presentation, it is possible to determine the percentage frequency of occurrence for any given limit of ceiling or visibility separately, or in combination of ceiling and visibility. The totals progress to the right and downward. Ceiling may be determined independently by referring to totals in the extreme right hand column. Also, visibility may be determined independently by reference to the horizontal row of totals at the bottom of the page. The percentage frequency for which the station was meeting or exceeding any given set of minima may be determined from the figure at the intersection of the appropriate ceiling column and visibility row. Several examples in the use of these tables are shown on pages 2 and 3 below.

Beginning in July 1948 for Air Force stations and January 1949 for NWS and U.S. Navy stations the "no ceiling category consists of observations with less than 6/10 total sky cover and those cases where total sky cover is 6/10 or more, but not more than 1/2 of the sky cover is opaque.

#### EXAMPLES FOR USE OF CEILING VERSUS VISIBILITY TABLES IN THIS TABULATION

CEILING	VISIBILITY (STATUTE MILES)															
(FEET)	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2 1/2	≥ 2	≥ 1 %	≥11/4	≥ 1	≥ %	≥ %	≥ /₁	≥ 5/16	≥ ¼	≥ 0
NO CEILING	~								5	<b>**</b>				$\sim$	<u></u>	
≥ 1800 ≥ 1500					0 و ا							)				2.6
≥ 1200 ≥ 1000																
≥ 900 ≥ 800																
≥ 700 ≥ 600																
≥ 500 ≥ 400										97.4					i 	98.1
≥ 300 ≥ 200																
≥ 100 ≥ 0					95.4		96.9			98.3				1		10C.

- EXAMPLE # 1 Read ceiling values independently of visibility under column at right headed  $\geq$  0. For instance, from the table: Ceiling  $\geq$  1500 feet = 92.6%. Ceiling  $\geq$  500 feet = 98.1%.
- EXAMPLE # 2 Read visibilities independently of ceilings on bottom line opposite  $\geq$  0. From the table: Visibility  $\geq$  3 miles = 95.4%. Visibility  $\geq$  2 miles = 96.9%.
  - Visibility  $\geq 1$  mile = 98.3%.
- EXAMPLE # 3 To obtain combinations of ceiling with visibility, read figure at intersection of the two categories; i.e.: Ceiling  $\geq$  1500 feet with visibility  $\geq$  3 miles = 91.0%.

#### PART D

4

#### ADDITIONAL EXAMPLES

Values below minimums stated in the table may be obtained by subtracting the value given in the table from 100%.

Thus, to obtain the percentage of observations with ceiling < 1500 feet and/or visibility < 3 miles, subtract the value read from the table at the intersection, which is 91.0, from 100.0. The answer 9.0 is the percentage of observations with ceiling < 1500 feet and/or visibility < 3 miles.

Likewise, the percentage of observations with ceiling < 500 feet and/or visibility < 1 mile is 2.6, obtained by subtracting 97.4 from 100.0.

EXAMPLE # 5 To find the percentage of observations falling within the two categories given in example above, subtract the value read from the table for the first set of limits from the value in the table for the second set of limits. The difference will be the percentage of observations meeting the lower set of limits, but not meeting the higher set of limits.

The value 91.0 read from the table at the intersection of  $\geq$  1500 feet with  $\geq$  3 miles, subtracted from 97.4 read from the table at the intersection of  $\geq$  500 feet with > 1 mile is equal to 6.4%. Thus; 6.4 percent of the observations meet the criteria: "celling  $\geq$  500 feet with visibility > 1 mile, but < 3 miles; or ceiling  $\geq$  500 feet, but < 1500 feet with visibility  $\geq$  1 mile."

Since these tabulations are prepared in several ways including by month, by 3-hour groups it is possible to determine diurnal variations of ceiling and visibility limits as well as probabilities of various ceiling-visibility combinations.

#### PART D

#### SKY COVER

This summary is prepared from 3-hourly observations and is a percentage frequency distribution of total sky cover and total number of observations. It is presented in two tables as follows:

- 1. By month and annual all hours and all years combined.
- 2. By month by standard 3-hour groups.
- NOTE: #1: Sky cover (total cloud amount) was not reported by U.S. Services until mid 1945. Data, when available, were punched for Air Force stations beginning in 1946, but were not available for Navy stations until 1948 or 1949. Weather Bureau stations recorded total cloud amount in remarks beginning sometime in 1945, but few stations have punched data prior to 1948. This summary will, of course, be limited to period of available data.
- NOTE: #2: Some sources of punched data used for this summary report cloud amounts in oktas. These have been converted to tenths prior to summarizing, and notation is made on the form to indicate that data were originally reported in oktas. The manner of conversion is given below:

OKTAS	3		TENTHS
0			0
1			1
2			3
3			4
4			5
5			6
6			8
7			9
8 (	or	obscured)	10

NOTE: #3: Beginning in 1981 the symbols of Clear, Scattered, Broken, Overcast, and Obscured were used as input for the Total Sky Cover. Following are the conversions:

Clear converted to 0/10 Scattered converted to 3/10 Broken converted to 9/10 Overcast converted to 10/10 Obscured converted to 10/10

### **CEILING VERSUS VISIBILITY**

CALLS. T MOURS 11 4 T

#### PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

VISIBILITY (STATUTE MILES) CEILING (FEET) ≥ 6 ≥ 4 ≥ 3 ≥ 21% ≥ 2 ≥ 1% ≥ 1% ≥ 1 ≥ ¥ ≥ % ≥ 5/16 75 . B 55. 55.3 55.A 500 49. 4.9 50. s. j. 29. ~ · ... 13.1 54.0 \_23 **°** ∂ 54.3 99.7 50.4 5-.4 59.0 59. 59.0 29.0 ≥ 18000 59.0 5001 59. ≥ 16000 19. 50. 40.7 60.1 40.0 50. ≥ 14000 60.7 63.7 6 1 . 7 67.7 67.4 62.6 52.5 52.0 62.5 62.0 62.6 62.6 52.6 62.9 57.6 ≥ 10000 ≥ 9000 12.5 52.6 52.6 62.6 64.8 50.6 64.2 54.8 84.F ≥ 8000 ≥ 7000 | 64 a e | 64 a 3 | 64 a 3 | 55.1 F6.1 50.1 65.1 56.1 66.1 c6. 66.1 66.1 10.1 66.1 5.1 - 0 - 3 66 - 9 66 - 3 66 - 8 66 - 3 66 - 3 66 - 3 56 - 5 56 - 5 66 - 7 66 - 7 66 - 7 66 - 7 68 - 7 6 ≥ 4000 ≥ 5000 50.7 69.7 69.7 1.4.7 64.7 64.7 69.7 69.7 69.7 69.7 15.7 67.7 4500 4000 71.6 71.7 71.7 71.9 71.6 71.9 71.7 71.9 71.9 71.7 71.4 72. 11.9 71.9 71.9 ≥ 3500 > 3000 73.2 73.2 73.6 73.6 73.4 73.6 73.6 73.5 73.6 73.6 73.5 76.8 75.2 /5.2 75.2 76.8 77.1 77.1 77.1 2500 75.4 75.4 75.4 78.7 73.7 78.1 70.1 75.1 70.4 73.4 75.4 71.4 75.4 78.4 78.4 <u>≥</u> 1800 22.6 82.9 88.9 82.0 22.9 33.9 82.9 83.2 32.9 72.9 52.9 . . . 9 42.4 42.6 04.5 94.5 04.5 84.5 84.5 84.5 84.5 14.5 45.2 85.2 85.2 85.2 05.2 65.7 85.2 85.2 43.4 83.4 P4.2 84.5 1200 ٠٢. × 5 . 2 85.2 45.2 45.2 84.2 84.5 6 C . F 95.8 85.4 5. 84.3 85.2 85.8 35.9 85.2 . 4 . 0 F5.9 85.3 16.6 TO E 36.9 56.5 97.1 57.1 35.1 86.8 36.3 86.8 86.2 26.8 95.9 50.3 37.4 37.7 67.7 88.1 89.1 68.1 86.1 46.8 87.4 38.4 58.7 48.7 39.7 84.0 55.0 80.3 50.7 85.0 87.4 4 9 . M · 1 . V1.7 V1.6 91.6 V1.5 F1.6 P1.0 44.5 V5.7 95.7 V5.2 V5.2 V5.2 E7.7 40.7 91.0 1.0 31.9 500 400 05.5 2 . 7 94.5 93.6 53.6 94.3 98.8 96.9 97.1 97.7 97.7 98.1 95.1 95.1 96.9 96.3 91. 31.9 5 H . % 94.3 95.8 94.5 91.3 91.9 24.8 ≎ . 3 95. P 36.5 96.5 97.2 97.4 97.4 95.8 06.1 94. e6.5 96. 97.1 97.7 77.7 1. 41.0 14.2 38.1 38.4 100 24.4 95.6 76.5 76.5 97.1 97.7 97.7 04.1 98.1 99.0100 01.9 94 .

TOTAL	MUMBER	OF ON	SEVATION	t .	ţ	

DIRNAVOCEANMET SMOS

## **CEILING VERSUS VISIBILITY**

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING		VISIBILITY (STATUTE MILES)														
(FEET)	≥ 10	≥ 6	≥ 5	≥ 4	≥ 1	≥ 21%	≥ 2	≥ 1%	≥ 1%	≥ 1	≥ ¾	≥ %	≥ %	≥ 5/16	≥ %	≥ 0
NO CEILING	4 . 6	£1.	51.0	51.	\$1.6	-1.	51.4	11.6	11.5	₹1.€	51.6	51.5	11.6	51.0	51.5	₹3.
≥ 20000	2 • €	54.5	54.5	54.5	55.3	55.3	55.4	3.2	65.2	2 و د	55.3	55.2	5.2	38.2	55.2	
≥ 18000 ≥ 16000	2.5	54.5	54.5	8 4 . S	55 • 2 50 • 2	15 · 2	55.2 55.2	15.2	55.0°	55.2 55.2	55.7	55.2			55.7	7.5
		3.4	54.5	4 5		5.2	55.2	27.2	35.7	5.3	55.2	55.2	23.7	55.2	<b>.</b>	•
≥ 14000 ≥ 12000	રે•લ ંક•લ	55.5	55.5	55.5	56.1	. 5 - 1	55.1	50.1	55.1	56.1	56.1	26.1	56.1	\$6.1	56.1	54.
≥ 10000	400	F. f	56.5	45	57.1	17.1	57.1	77.1	57.1	57.1	57.1	37.1	17.1	57.1	57.1	7 7
≥ 9000	ક્રમ •ું	56 . P	50.8	55.3	57.4		57.4	57.4	57.4	37.4	57.4	57.4	47.4	57.4	57.4	۶٠.
≥ 8000	95.1	े हैं 🖟 🕻	5 1 - 1	5 ? • X	5 . 1	38.7	58.7	7.5 . 7	58.7	55.0	54.	59.0	\$0 or	59.	5.2	•
≥ 7000	5.3.4	59.4	50.4	59.4	6	9.0	60.0		50.0	63.3	€0.3	00.3	20.3	67.02	£ 1 • 3	
≥ 6000	7 . 7	€ 1 °	& i a li	60.0	ta Y	13.7	60.7	63.5	67.7	63.0	51.7	61.7	£1.0	£1.0	61.7	61.
≥ 5000	A G . 1	52.0	62.9	57.9	63.6	13.6	63.6	43.6	63.6	63.9	13.9	63.9	47.2	13.5	64.5	4,44
≥ 4500	1 • 5	13.9		4.2			64.7	(5.8	50.11			65.2		- 1		
≥ 4000	01.	1.4	54.2	64.5			65.3	•5.5	86.6	45.4	68.7	65.3	6 . 5	15.9	55.5	
≥ 3500	52.0	15.2	, ,	6.5 • 5		6.1	66.1	15.5	26.5	4.55	66.8		66.5	66.1	7 B . E	£ 7.
≥ 3000	3.	J. 5, p. S		65.5	56.5		66.5	50.3	56.2				67.1	57.1	67.1	67.
≥ 2500	12 • 7	67.1		67.4	69.1	49.1	68.1	15 4 <b>. t</b> a	5,11 .4		62.7	EP. 7	1	68.7	68.7	5 ÷ •
≥ 2000	٠,	(-9	6	5 V . 7		73.7	70.7	71.0	71.	71.3	71.3	71.7	71.7		71.3	
≥ 1800	_ ○ • *		7 . 7	71.3	-	72.3	15.8	72.6	15.4	72.9				72.0	33.6	77.
≥ 1500	7		74.8	70.5		76.5	76.5	76 . 3	76.5			77.1	17.1	77.1	77.1	. 77.
≥ 1200	7.7	78.7	72.7	79.4	3 . 3	ិម 📑	U 7 • 3	7	. , ,	31.7	• •	1.0	11."	1.5	1.	1.
≥ 1000	4 . 7	• 1	3 .	7 7	41.6	1.6	5 l . b	1.5	81.0	62.5	67.3	9 3	57.3	2.1	17.7	1 2 •
≥ 900	4 . 4	70.7	81.0	21.6	63.6	2.6	22.6	3.0	# 5.0	83.2	7.2	73.2	4 5 . 2	33.0	53.2	•
≥ 800	70.1	32 • ti	3 2 • 9	23.9		*5.2	85.3	- 1.6 • A	55.1	86.5	46.5	46.5	64.5	26.5	86.5	* * *
≥ 700	16.0	3.5	54.7	95.8	AY.	7.1	6.6	4.1	30.1		Pa . u	88.4	55.4	4 A . U	49.4	S
≥ 600	76.8	*4.2	84.6	6.4	14 S • 1	9.1	50.7	44.0	W J	9.04	85.4	45.4	89.4	6.7.4	g -> , u	9 / .
≥ 500	6.3	75.2	6001	38.4	87.7	-0.3	* 7	1.0	11.	73.3	91.3	*1.3	41.3	41.3	71.	-1.
≥ 400	. 6.07	15.2	86.3	59.0	9:03	10.7	75.0	2.3	72.3	32.6	97.3	07.3	93.2	43.6	73.0	
≥ 300	15.8	35.5	67.4	9 1.3	31.0	2.5	73.6	14.2	34.7	54.0	95.5	95.5	97.8	75.8	95.	96.
≥ 200	6.2	85.5	37.4	1		v2.3	97.6		54.3		96.5	56.5	45.5			97.
≥ 100	16.4	85.5	37.0	2 . 3	91.3	77.3	\$3.6	74.9	34.8	07.1	98.8	96.8	47.7	98.1	98.4	30.
> 0	76.0	44.5	57.4	9 3	21.9	92.3			04.5	95.1	94.4	P.AC	60.1	94.4	98.7	17.

AL	NUMBER	Of	OBSERVATIONS		<u>-</u>	1	•
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DIRNAVOCEANMET SMOS

## **CEILING VERSUS VISIBILITY**

HOURS IL S T .

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING	VISIBILITY (STATUTE MILES)															
(FEET)	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 21/2	≥ 2	≥ 11/4	≥ 11/4	≥ 1	≥ ¾	≥ %	≥ 14	≥ 5/16	≥ 1.	≥ 0
NO CEILING ≥ 20000	1 .	1.	11.	11.0 50.5	5 ( • 0 2 5 • 0	5.5	51.5 55.5	1. ° 5.5	J1.3			51.5	21.0	.1.	1.6	1.
≥ 18000 ≥ 16000	1.			50.5 55	55.5 51.5	5.5 5.5	55.4 55.5	5.5	31 5	55•6 85•5	ų° <sub>φ</sub> t. Σ <sup>e</sup> φų	5.5 55.5	+ c, _ r	55.		
≥ 14000 ≥ 12000	1.	> .?	3.5°	45.5 52.3	55.5 55.5	5.5	55.5 55.5	г., "г. т.к., д		5 1 • 5 7 3 • 1	50.5 50.3	50.5 55.5	0 % € 5 5 % € 8	.5 • ·	ु९.⊤ • ≝ • ५	•
≥ 10000 ≥ 9000	4 . 2	7.1	57.1	57.4	57.4 57.7	57.4 57.7	57.4	77.4 77.7	57.4 57.7	57.7	57.R	57.4	5.7.7	57.7	57.4 57.7	-7.7 -7.7
≥ 8000 ≥ 7000	55.∎ 53.∎	17.1	5 : . u	51.7	51.	19.7	53.7 61.5	10.7	50.7	54.7	50.7 51.3	64.7	(17   11.7	11.7	1 5 . 7 1 3 . 7	1.
≥ 6000 ≥ 5000	• 1	53.3	61.5 53.2	63.6	51.7 63.5	51.9 53.6	61.9	3.6	91.7 53.7	51.5 53.0	51. 53.6	61.7 53.	53.6	6.1 a 4	61.	ا ۱۰ د <u>د</u> د د
≥ 4500 ≥ 4000	.1.6 .1.6	/4.4 /5.9	85.0	65.2 46.1	55.1	5.2	65.2 66.1	5.7	35.1	65.2 65.1	65.2	66.2	<.1	40.2	(1.2 (5.1	• • • • • • • • • • • • • • • • • • •
≥ 3500 ≥ 3000	} • *		5°•€ 54•5	56.1 66.8		57.1	57.1	· 7.1	67.1		57.1	67.1	+ 7.1	96.1	56.1	<u> </u>
≥ 2500 ≥ 2000	٠.٠ <u>نوا</u>	11.	71.	72.3	71.	11.6	71.5	71.5	73.5	71.	71.4	71.5	71.0	ξο. - 11.5	71.5	: • • · · · · · · · · · · · · · · · · ·
≥ 1800 ≥ 1500	7.00	71.7	71.5	71.6	77.4	71.9	71.7	77.7	77.7	71.09	77.7	71.7	71.0	17.7	71.5 [ <u>77.7</u> .	77.7
≥ 1200 ≥ 1000	,,,,	77.4	7 7	75.4	74.4	13.7	71.7	-7.3	37	78.7	• 1 • .)	75.7	. 7	75.7	7".7	7 ?
≥ 900 ≥ 800	11.1	12.4	57	79.4 31.6	47.5	2.6	87.3 32.0	6.		97.j	3 2 • 6			0 2 . 5	د د د	5 · ·
≥ 700 ≥ 600	74.5	3.2	95.5	34.0	34.9	5.7	35.2 86.5	5 5 5 E	37.5	25.5 20.5	& 5 . A	86.3		15.6	35.5	<u> </u>
≥ 500 ≥ 400	74.4	4 .	8 4 . H	47.7	87.4 87.	39.7	31.4	21.3	86.7	95.7	34.7	21.3		30.7 51.	91.5	1.4
≥ 300 ≥ 200	4 0	14.	36.1	4 . 4	3 . 7	:1.	92.6	74 . S	74.5	73.00 45.66	93.6	43.6 45.2	17.5	15.5	44.0	94.7 96.1
≥ 100 ≥ 0	14 . 3	14.7	35.1	30.4 21.4	31 - 3	1.	92.5 92.5	34.5	94.3 94.3	45.5	75.6	95.8	96.5	26.5 76.8	98.1	7 · · ·

TOTAL MUMBER	OF OBSERVATION	JE :
IOINE HOMBER	O. OB3541A11O	<b>'</b>

DIRNAVOCEANMET

### **CEILING VERSUS VISIBILITY**

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING	VISIBILITY (STATUTE MILES)															
(FEET)	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 21/2	≥ 2	≥ 11/4	≥ 1%	≥ 1	≥ ¥	≥ %	≥ 1/4	≥ 5/16	≥ '•	≥ 0
NO CEILING ≥ 20000	77.	45.1		47.1	44.7	4 - C	4 .	44.5 44.3	4	4:00	43.0°	44.5 47.4	44.5	44.	44.	44.
≥ 18000 ≥ 16000		46.0	47.4	4 . 1	47.7	•	5.0 • T	• **I	3.7 <b>.</b> 7	 	7 <b>7 .</b> 13		7.0	7.7.63 7.7.63	7 7 6	
≥ 14000 ≥ 12000		47.1	4 ? 4 4	4 . 4	51.0	*0•3 *2•3	57.7	7 ( ) T	, , ,	7	10.3 12.3	1 3 <b>. 3</b>	10 • 3 2 • 7	17.7 73.4	11.7° 7'	
≥ 10000 ≥ 9000	• • 1	61.	51.9 51.9	* 7 . 6	54.5	7 • ·	54.0 34.0		64.6 64.9	54.40 5.4.4		: u	1 4 . r	5.0		
≥ 8000 ≥ 7000	, 7	4.1	53.7	54.7 55.1	€1 • } €2 • 4		56.7	7	.7	51.7	50.7	56.5	5.0 ° 5.	< 1 •	हरू	
≥ 4000 ≥ 5000	1	1 € 6 °	5 ( • 1) 5 ( • 2)	27.1	5 . 4 { } .	19.7 1.5	5'.'	1.	59.7 61.6	1.	57.7 51.6	53.7	11.5	t. •.7 61•9	61.	
≥ 4500 ≥ 4000	<b>3</b>	7	5 - 4 5 - 4	6 • 3	67.6	12.4 12.4	93.0		6 ° • 7 5 • ° • °	F2.	62.	٤. • ٥	\^_9	•		
≥ 3500 ≥ 3000	•	1	43.7	6 to 5	64.5	64.5	35.5	6.	50.3 -5.4	64.5	5 d e	20 e c		• 7 • 1		
≥ 2500 ≥ 2000	), • 1' 56 •		64.6 5	67.1	5 . 4 5 . 7	76.7	17.	7 . • S	1	7	7.5	7 1 1	7		60. 10.	
≥ '900 ≥ 1500	• •	11 • 3	71.	7	74.0	25.00	75.5	77.3	73.7	75.2	71.5	7 2	71.1	*	71.1	
≥ 1200 ≥ 1000	1.	72.1	74.4	74.2		19.4		77.1	79.0	7	77.1	77.1	70,4	77.4	7 . 7	7 . 7
≥ 900 ≥ 800		73.7	74.2	75.A		77.4	7. 4	79.4	7 . 4	7 . 4	7 . 4	1	- 7	1	1.	1.
≥ 700 ≥ 600	•		75	74.5	11.1	5.0	32.6	6.6	1.7 • °	1 55 - 2	1	# 7 . 3 # 4 . l	. 1	3 • •		
≥ 500 ≥ 400	•	7	75.4	7 . 4	10 to \$	7.7		7 · 1	€ 0 <b>.</b> 4	7.1	·( • 3	• 1 • • 5	.7	1.	*1.	1.3
≥ 300 ≥ 200	•	75.4	77.7		35 - 5 34 - 5	F	99.7 A2.7	1.0		7.0	7		3001	6	36	,
≥ 100 ≥ 0	•	, , , , , , , , , , , , , , , , , , ,	77,7	?		9. i	53.7 38.7	1.	71.	73.2	5 H = 5		06.1	7.1	77.4	4 R .

TOTAL NUMBER OF OBSERVATIONS	

### **CEILING VERSUS VISIBILITY**

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING		VISIBILITY (STATUTE MILES)														
(FEET)	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 21/2	≥ 2	≥ 11/4	≥ 1%	≥ 1	≥ ¾	≥ %	≥ ⅓	≥ 5/16	≥ '.	≥ 0
NO CEILING ≥ 20000		45.5	4~.c	4 5	47.	.7.7	53.4	a 7 . 3	47.	47.3 51.4	47.3	47.3	4.7.3	67.5	42.7	4.7.
≥ 18000 ≥ 16000			5 3 4	7. 4	53.7	3.7	5 2 . 7 5 3 . 7	7	7		, ,	53.7	57.7	1 1 . 7 2 X . 7	13.7	- 7
≥ 14000 ≥ 12000		, , ,	50.1	.4.1	54.4	74 . u	E - , u	ta	1 . 3	74.4 55.4	54,4°	54.4 55.3	1 4 4	74.5 5.1	25.3	
≥ 10000 ≥ 9000	1.	1 t • 7	\$ . 3 5 . 5		54 s.	6.5	5 % <b>6</b> 13	15.4 15.4	Se es	5 · • 0		 	1. L. K	Cons.	55.5	
≥ 8000 ≥ 7000	(, , ) • ]	7	3 · 6 · 5		5	3.7	50.0	•	54.4 .5.5	50.6 62.1	27.65 53.5	10 • 6. 50 • 6	,	4 90		•
≥ 6000 ≥ 5000	د ن د	7.1	61.2 27.	61.7 63.5	63.00 53.11	-1.5 -1.1	5.1	· 1 · ·	61.4 63.4	1.1	* 1 . 3	61.5 53.1	61.5 -7.1	*1.5	61.7	::• :•:
≥ 4500 ≥ 4000	• 1	7 . 7	54.7		5 . 1 6 Y	[ و د * و دا	15.1 15.3	1	-1	19 <b>01</b>	61.03	-5.1 (5.3	υ •¶ <u>(</u> \$•3	1 .1 50.03	: 7 • 1. 14 • 7	
≥ 3500 ≥ 3000	1.3	* 65 a 4	5' . 7	6/03 6 0	67.0 67.5	47.5		اره و د ای و د	ر. د • • • •	67.5	67.5	57.0 57.1		65.5	67.	£ 7.
≥ 2500 ≥ 2000	• 4	1.0	7 . 1	7 . 1	71.2	73.5	71.2	77.6	7 3 . ~	71.2	71.2	71.2	71.2	71.2	71.	7 5 .
≥ 1800 ≥ 1500	1	? 7	7	74.4	75.1	77.	7:01	7.1	7 • 1 	7	79.7	? * • \ . • • • •	7 . 1	71 • i   • ? 	75.1	7:•!
≥ 1200 ≥ 1000		99.4	51.4 34.5	4.5	9 3 € 39 - <del>1</del>	2. / 	4/ 61	*•• <del>•</del>	• 1	1	: 5 - 1	1 - 1	. 1	-6 • 1	-2.0	
≥ 900 ≥ 800		2.0	ο <sup>5</sup> •4		37.4	67.7	37.7 32.7	7.7	* 7 . 7	87.7 33.7	97 - 71	47.7 36.7	7,7	18.1.	56.	37.7 31.7
≥ 700 ≥ 600	73.	23.5 34.5	65.7 57.7	29.1	69.6 97.5	11.4	72.6	? ? » »	22.6	97.6	97.3 97.4	96.03 92.6	ر نام در	72.00	4	
≥ 500 ≥ 400	•	5.4 -5.9	4 2 . 7 4 3 . 7	89.0	3	3.2	77.7 74.4	15.8		ચ્યુ . ડે ઉત્ત વ			5 4 6 E	:5.4		19 • • • • • • • • • • • • • • • • • • •
≥ 300 ≥ 200	•	5.4	50.7	表作。 月 4 6	• •	3.2	24.3	28.6 78.5	×7.1	93.7	92.1	7	, -, -,	30.5	30.0	
≥ 100 ≥ 0	•	5.4	38.7 83.7	4.	97.0	3.2	34.4	76.3	\$7.1 \$7.1	94.	44.7 ,0.7	- :			7.7•€ (1.0•€	

TOTAL MUMBER	OF OBSERVATIONS	

DIRNAVOCEANMET SMOS

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### **CEILING VERSUS VISIBILITY**

. •	JANA A 🗼 Tr	Market Committee	J١
STATION	STATION NAME	YEARS	MONTH
		GE FREQUENCY OF OCCURRENCE M HOURLY OBSERVATIONS)	HOURS (L S T .

CEILING		VISIBILITY (STATUTE MILES)														
(FEET)	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 21/2	≥ 2	≥ 1%	≥ 1%	≥ 1	2 %	≥ %	≥ %	≥ 5/16	≥ ¼	≥ 0
NO CEILING ≥ 20000	57.7	* [ ]	50.7	50.1	51.0 54.7	3.n 48.7	58.7	13.0 34.7	56.7	50.0 51.7	50.0 50.7	10.0	30.0 30.7	50.7	57.5 58.7	50.0 50.7
≥ 18000 ≥ 16000	• 3	5.7. 5.9.	50.	59.3	57.7 59.7	*9.0	59.3 59.7	\$9.7	59.00 59.00	₹0.0 15.0	57.0 56.7	54.C	5 • 3 5 • 3	69.3	59.6 59.6	50 <b>•</b>
≥ 14000 ≥ 12000	^•	59.4	54.4 61.6	59.4	52.4 61.6	50.4 51.5	57.4	50.4 51.0	50.4 51.	50.4	59.4	33.4 61.5	61.6	50.4 61.6	54.4 61.6	A.1.
≥ 10000 ≥ 9000		54.2 54.2	54.2	64.2 64.2	64.2	4.2	64.2 64.2	.4.7	54.7	64.2	64.2	64.2	64.2	54.3	59.	ξθφ2 (4φ?
≥ 8000 ≥ 7000	1.2. 3	46.1	64.8 66.2	64 . H	54 . 5	67.1	64.3	· 4 · 4	67.1	57.1	64.2	67.1	4,7,1	67.1	64.6	57.1
≥ 6000 ≥ 5000	. 1	67.4	55.4	40.4		48.7	63.1	( 3 • 1 6 • • 7	60.1 00.7	60.1 68.7	5 . 1	63.1	69.1	64.7	52.7	5:01
≥ 4500 ≥ 4000	/ E • *	7.8.7 29.7	6 ? • · · · · · · · · · · · · · · · · · ·	7 1 3	7 . 7		€9.7 70.7	7 . 7	7 . 7	7 . 7	77.7	7 . 7	7 - 7	75.7	70.7	,,,,,
≥ 3500 ≥ 3000	• 4	74.5		71.5	75. 3	15.0	72.3 73.d	35 B	75.8	75.3	75.5	72.1	71.5	72.4	75.5	7\ • ': 
≥ 2500 ≥ 2000		79 A	1 1	70.5	;	17.1 60.1	97.1 80.0	******	77.1	77.3	77.1 (7.1)	23.3	77.1		1 , 1 + 1 77 + 2	77 <b>.</b> :
≥ 1800 ≥ 1500	7.	1.	33.3	5 u . 2	"3.2	1.6 3.3	38.6	. 3 . 6	-1.6 -3.6 -3.6	3.65	4 ( 6	3 • 6	1.6	3	1 3 · 4	
≥ 1200 ≥ 1000	1		84.2	· • • •	A /, 2	7.7	28.8		47.	H	* * * * * * * * * * * * * * * * * * *	37.7	31 . 4 57 . 7	7 5 7	36.H	
≥ 900 ≥ 800	7	34	5.	- 3 . 1	3	0.7	हुँ । इ <b>ग</b> ्रे	· 7	7	7	7 7 1 . 5	21.9	01.7	93.7	91.7	7
≥ 700 ≥ 600	7	- C - C	43 • 7	83.4 80.0	91.0	3.5	72.1	4 6		91.	/ · · ·	5.3	~1.2	75.3	76.1	
≥ 500 ≥ 400 ≥ 300	7 7	A6.1	41.7		73.6	4	2	5 . 9 15 . 9	96 . 1	6.	127 a	97.4	37.7	27.7		. , .
≥ 200	7 7	96 . 1 56 . 1	87.7	7 . 1	_ 1	14.3	5 k . 7	25.4 15.3	56.1	77.4	3: .7	7 1	27.4	79.4	_	¥ Ç , 7
≥ 100 ≥ 0	7 4 . 7	52. • 1	97.9	67.3	27./,	4.	g K . ?	en, n	-	21.4	35.7	94.7	_		107.7	

TOTAL NUM	BER OF	OBSERVATIONS		' :

### **CEILING VERSUS VISIBILITY**

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

NOVES (L S T )

CEILING		VISIBILITY (STATUTE MILES)														
(FEET)	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 21/2	≥ 2	≥ 1%	≥ 1%	<b>≥</b> 1	≥ ¾	≥ %	≥ %	≥ 5/16	≥ ′₄	≥ 0
NO CEILING ≥ 20000	1.	3.0	کی د کی با	#1.5 60.1	F 7 . A	13.6 60.3	63.6 60.3	51.6	53.6 62.3	53.5 50.3	93.6 88.3	53.6 53.3	57.6 50.3	53.65 Sac	53.6	3.4
≥ 18000 ≥ 16000	7	4	6 3	1.1.3 20.3	≎^.3	60.3	60.3 60.3	60.3	50° 3	50.3 60.3	67.3	67.3	50.3 60.3	50.3 60.3	67.5 6 <b>7.</b> 3	(**.:
≥ 14000 ≥ 12000		1	67.7 92.2	67.7 57.3	67.7	10.7	55.7 62.5	10.7	62.3	50.7 62.3	5 .7 5 ? . 3	63.7 52.3	10.7 92.5	63.7 62.5	60.7 62.3	, , 7
≥ 10000 ≥ 9000		64.5	64.9	54 a tt	64.8	-4.8 -4.3	64.8 64.8	64.9	64 68 54 68	64.3	54.4 €4.8	54.3 54.3	64.8	54 a 5	54.5 54.5	64.5.
≥ 8000 ≥ 7000	3.0	.5.°	50.1 51.1	55.1	65.1	75.1 -7.1	66.1	65.1 57.1	50.1 57.1	67.1	55.1 67.1	60.1 57.1	(7.1	67.1	56.1	67.1
≥ 6000 ≥ 5000	- •	68.4 69.7	7 . 7	7:03	7 . 7	70 • 5	69.0 70.3	75.3	150 T	5000 7303	7 3. 3	00.3 70.3	10.3		72.7	7 2
≥ 4500 ≥ 4000	7	71.	72.5	77.5	71.7	11. 72.5	71.3	71.3	71.7	71.5	77.3	71.5	77.7	72.3	71.5 72.3	7
≥ 3500 ≥ 3000	7.0	5 . 1	74.8	74.3 70.8	76.0	70.	74.5	74.6 76.4	74.5	74.8	74.9	74.0 76.8	76.8	76.8	76.5	75.2
≥ 2500 ≥ 2000	5.	79.7	73.5 83.7	2.3.7	76.4 81.7	78.4	£7.7	10.7	63.7	3 .7	71 . 4	75.4 37.7	5 .7	78.4	37.7	7 5 7
≥ 1800 ≥ 1500		1.	\$1.0	1.5	91.3	1.5		1.7	-1.0 -1.3	₹1.0 91.0	61.9	- 11.9 - 11.9	1.0	31.9	51.3	-1.3 -1.3
≥ 1200 ≥ 1000	7.1	03.4	94.2	:4 . 2	A2.0	"4 P	85.5	12.9	:7.9 :5.5	8. • ¥	87.0 85.5	23.9 23.5	A 7.0	<b>₹5</b> • 5	25.	• 1
≥ 900 ≥ 800	77.7	43.9	9 . 5	45.5	47.3 25.6	5.0 6.0	87.7	"7.7	57.7	37.7	50.1	35.1 85.1	: 1	46.1	85.1	* 6 . 1
≥ 700 ≥ 600	7 • 1	5.3	84.1	37.7	89.7	37.7	31.3	1.6	31.6	91.6	51.9	91.9	C1.0	91.3	61.3	21.5
≥ 500 ≥ 400	7 . 1	5.	87.1 87.7	2 · 1	90.4	:0.7	23.6	72.n	74.2	90.4 25.4	94.1	92.9	6.0	45.0	Ÿ6.	75.
≥ 300 ≥ 200	,	15.	97.7 57.7	, 7	7 .7	11.	97.5	15 • 2	94.5 \7.02	6.1	57.7	98.7	69.7		105.0	
≥ 100 ≥ 0	7	45 • t	37.7	91 . 7 7 . 7	2 . 7	i.	9 * . 9 2 * . 9	5.2		96.1 96.1	47.7 47.7	7	2.7	100.3 100.0	-	100 e

TOTAL MIMBER OF DESERVATIONS	

### **CEILING VERSUS VISIBILITY**

#### PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING							VIS	HBILITY (ST	ATUTE MIL	.ES)						
(PEET)	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2%	≥ 2	≥ 11/3	≥ 1%	≥ 1	≥ ¥.	≥ %	≥ %	≥ 5/16	≥ 1/4	≥ 0
NO CEILING	13.	74.0	5.0			ិទ្ធ ក		-5.	# 1 <b>.</b> F	42.00	24.6	35.9	50.5	55.8	55.8	55.0
≥ 20000	/	1 ?	51.3	51.3	61.6	let	61.3		61.6	51.0	61.6	>1.0	31.6	51.5	71.5	61.0
≥ 18000 ≥ 16000	7	50.00 (P. 7	01.3	61.3	61.6	71.6 71.6	61.5		61.6	51.0	61.6	61.5	51.6 51.6	61.	61.6	51.0
≥ 14000	, T .	1.0	21.5	F1.5	61.7	61.9			51.	61.9	01.	61.4	\$1.7	61.0		41.0
≥ 12000	1."	61.	65.4	62.9	67.2	63.2	63.2	33.2	63.3	63.2	63.2	0303	67.2	63.2	62.2	63.2
≥ 10000	· · ·	3.2	84.2	64.2	50 .	5/4 . 5	64.5	:4.5	54.0	£4.5	54.5	54.5	54.5	54.5	24.5	K4 . ?
≥ 9000	٠٠٠، ق	14 . 3	5 .5	01.5	65.A	h5.	65.8	45.3	65.8	55.03	64.00	55.5	(, 5 o F	65.3	€5.°	6 . 3
≥ 8000	1.4 . ?	10.1	67.1	57.1	57.4	7.7 a	57.4	57.4	£7.4	57.4	6 . 4	6 . 4		67.4	F7.4	67.4
≥ 7000	6.1	4.7 • 1	6 - 3	5 1 . 1	6: •	65.4	62.4	4 . 4	5 .4	60.4	20.4	03.4	67.4	65.4	£ 8 € ₩	53.4
≥ 6000	6.1	4. 7	65.7	60.7	69.7	77.	69.0	39.6		£4.0	b '• (	~ ? • U	50.3	69.	60.7	
≥ 5000	24	7 . 3	71.5	71.3	71.6	71.6			71.6	71.4	71.6	71.5	71.6	71.6	71.5	
≥ 4500		.1.0	45.0		73.0	73.2	73.2	73.2	73.2	73.2	3 6 0 5	6.0	73.2	3 . 2	73.4	39.
≥ 4000	<u>``a</u> , • ?	*6 *	73.6	11.5		73.9	73.7	73.9	75.0	13.9	73.7	73.0	***		73.9	7
≥ 3500	71.0	43 - W	74.5	- 1	73.2	75.2	75.7	42.5	15.05	75.2	: 1	77.02	7	1 (	75.2	71.07
≥ 3000	_ 5 • ·	75.5	75.5	76.5	76.8	<b>?6.</b> 3	76.8	'n - 3		75.8	76.5	76.0	75.0	76.8	75 .€	76.
≥ 2500	1000	76.1	79.0	7.00	7 . 7	79.7	79.7	79.7	20.4	70.7	35.3	12.1	77.7	75.7	79.7	75
≥ 2000	7.	2 7	dlev	31.6	P.2. 7		62.3	2 • 3	3.0 • ₹	· 2 . 3		~ 7 • 3	• 7	12.3	32.3	_ 70 • 3
≥ 1800	7.7	61.	31.0	11.7	A2.6	-2.5	32.5	₹6	42.5	12.5		ം വ		°2 • c	5.00	* Z • t.
≥ 1500		33.0	84.5	:4 , 5	25.5	∂ <b>5</b> • 5	85.5	95.5	.5.5			5	- 5 - 5	15.5	35.5	· • •
≥ 1200	•	23 G	64.9	F4 . E	35.8	5.8	85.4			45.45	35.3	8	( C . B	5.0	હે 🕏 🔩	\$ . i
≥ 1000		35.2	85.1	A :. • 1	45 - 1	7.1	37.1	47.1	27.1	37.1	57.1	F 7 . 1	-7.1	27.1	37.1	37.
≥ 900	-0.0	45.2	85.1	16.1	97.1	17.1	57.1	57. L	67.4	57.1	£7.1	97.1	7.1	7.1	37.1	87.1
≥ 800	1.6		34.5	86.5	97.7	7.7	38.1	38 • 1	5 N . 1	30.1	PF - 1	50.1		26.1	68.1	€ v. • .
≥ 700	1.	16.1	í	-7.4	34.7	35.7	89.0	84.5	85.0	5 4 ° 4	87.7	9.9	3.20	99.	80.7	45
≥ 600	1.	-5.1		77.4	85.4	49.7	30.A			94.0		°0•8	* • t	92.	₹3.7	f
≥ 500	1.	7.4	-	H 2 • ;	91.00	3.0		12.3	27.3	23.3		142.3	2.4	\$2.5	77.5	3. • T
≥ 400	1.	19.4	<del></del>	9 3	73.4	-3.≎	94.5	34.8	94.4	94.0	24.3	76.4	90.8	C# . E	94.4	
≥ 300 (	1.	<b>5.7</b>	9 . 3	G 7 . 7	74 . 3	-5.2	96.5		97.4		30 . 1	30.1	9 ° 4	l • 'I	98.4	33.04
≥ 200	.1.	65.0	9:.7		36.5	45.8	97.1	20.1	75.4			79.4	97.7		99.7	49.7
≥ 100	-1.	୍ୟକ୍ଷ	<b>⇒</b> € • 7	61.0	(	5.3	77.1	38.1	600		38.4	77.4	-			94.
≥ 0	11.7	29.0	93.7	71.0	25.2	~5.e	97.1	38.1	99.4	48.7	30.4	09.4	40.7	39.7	100.0	1 7

DIRNAVOCEANMET SMOS

TOTAL NUMBER OF OBSERVATIONS

### **CEILING VERSUS VISIBILITY**

# PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

NS)	MOURS (L S T ,
MILES)	

CEILING		VISIBILITY (STATUTE MILES)														
(FEET)	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2%	≥ 2	≥ 11/2	≥ 1%	≥ 1	≥ ¥	≥ %	≥ %	≥ 5/16	≥ ¼	≥ 0
NO CEILING ≥ 20000		55.5	56.3 57.1	51 . Y	56.7	1.3	51.3 56.6	1.3	1 4 P	10.5	71.3	51.3	51.5		51.4	51.6
≥ 18000 ≥ 16000	.3.	56 56	\$5.3 36.3	55.4 55.4	56.5 56.3	* ( , ;	56.5 56.0	4 . 8 35 . :	56.00	36 . E	56. 1 56.0	56.3	5 4 . A	56.4 56.9	56.9	54.5
≥ 14000 ≥ 12000	H • 1 2 • 2	rέ•2 37•6	54.8 57.0	£ 6 € € 4 5 € }	54.4	7.7	57.7 55.4	57.0 30.4	57.0 45.4	17.2 53.4	57.J 56.4	50.4	57.0 52.4	57.1	57.1	5.0
≥ 10000 ≥ 9000	, ,	. 7	39.7 59.9	6' .1	5 - 2 6) - 5	60. ¥	60, 9 50.5	5	500	60.3 60.5	5 . 5	6 5	€ 1.3 30.05	60.3 60.6	50.4	63.4 26.5
≥ 8000 ≥ 7000	• 1	1.3	51.5 63.8	61.6	67.3 63.6	+2 • 1 +3 • 7	62.1 63.7	12.1 63.7	02.1	63.7	62.1 63.7	63.7	63.7	62.2 53.7		I
≥ 6000 ≥ 5000		33.3 35.3	53.5 65.7	4.1	66.4	6.4	64.6	14.6 15.4	64.6 10.4	54.5 56.4	64.5	64.5	64.6 65.4	64 . 7 66 . 5	64.7	64.7
≥ 4500 ≥ 4000	5 . 3 4 .	67.2	50. y	67.7 68.5	60.7	67.7	67.7 66.5		67.7	67.7	67.7	52.0	67.7	57.5 55.6	67.8	57.7
≥ 3500 ≥ 3000	۶ م. د م د	73.2	, ,, , , ,	6 3 • 3	67.5	71.5	69.9 71.t	- 1	59.0	71.0	71.0	70.0 71.5	70.0	1 1	73.0	77.1
≥ 2500 ≥ 2000	, , , , , , , , , , , , , , , , , , ,	74.1		72.8 75.0		73.4	73.4 75.8	73.5 75.8	75.5	73.5	77.5	75.5	73.5	75.9	75.4	75.1 75.
≥ 1800 ≥ 1500		75.1 78.4		76.0	76 • 6 80 • 2	76.3	75.3 PC.3	75.8 -U.3	75.5 34.7	70.9 37.4	74.0 80.4	76.9	75.0	76.9	76.5 57.4	77.
≥ 1200 ≥ 1000	14.5	1: •7	81.7 87.1	21.2		53.0	52.2 84.3	12.2	52.7 34.0	42.3 54.0	42.7	32.3 84.0	34.0		30.1	200
≥ 900 ≥ 800	74.5	71.5	32.4 83.4	63.1 24.3	96.7 55.9	24.5 25.1	54.6 86.3	4 • 6 • 6 • 4	54.6 36.4	94.7	84.7	54.7 36.5	44.7	34.7 34.5	64.8 65.6	3 to 6
≥ 700 ≥ 600	75.4 75.7	43.2	734.4 85.0	45.6 85.3	57.3	57.6 ⊴8.7	87.9	έθ•1 29•6	3 5 - 1 5 - 6	90.2 89.5	59.0	68.2	89.2	!!!	88.1 90.0	28.5 26.€5
≥ 500 ≥ 400	75.0 75.1	34.0	35.0 87	67.4 66.2	97.2	90.4	91.3 92.9	71.4 93.5	51.4 53.6	91.7	91.9	91.0	91.9	97 . c 94 . 6	92.1 94.7	94 . :
≥ 300 ≥ 200	*5.3	39.2	67.1 57.2	દ્ધ <b>ા?</b> ડેસ•ઉ		2.3	74.0 84.0	74.7	94 . 5 95 . 5	75.6 96.6	97.4	97.5	95.1	98.2	75.2 78.4	78.5
≥ 100 ≥ 0	15 • A	/5.2 /5.2	57.2 57.2	* 9 . 8 1 % . 8		72.5	94.0	45.4 75.4	95.5 95.5	36.7 36.7	97.5	97.7 97.7	98.4	, ,	99.0 59.2	99.4

TOTAL NUMBER OF OBSERVATIONS 47

#### **CEILING VERSUS VISIBILITY**

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

VISIBILITY (STATUTE MILES) CEILING (FEET) ≥ 10 ≥ 5 ≥ 21/2 ≥ 11/4 ≥ 1% ≥ 5/16 NO CEILING ≥ 20000 b . 6 64.2 44.2 ÷4. 54.2 64.2 64.2 1,40 44.2 64.2 (.4 . ≥ 14000 ≥ 12000 64. 64.7 65.7 ≥ 10000 ≥ 9000 67.4 44 ≥ 8000 ≥ 7000 75.2 70.2 10.2 73.2 70.2 70.2 71.5 71.3 6000 5000 72.7 72.7 72.7 72.7 77.7 78.1 72.7 72.7 72.7 73.1 73.1 73.1 73.1 4500 4000 3500 3000 76.5 76.6 76.0 73.4 ≥ 2500 ≥ 2000 37.5 .3.9 स्त, प ≥ 1800 1500 63.7 . 4 . 4 54.4 34.6 35.5 1200 35.4 80.7 89.7 <u>></u> 91.5 11.5 41.F 700 600 98.54 01.8 75 . C 25.4 2 500 400 4. 300 95. 76.5 27.5 47.5 4 . 46.5 98.5

TOTAL NUMBER OF OBSERVATIONS

### **CEILING VERSUS VISIBILITY**

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS) HOURS (L S T

CEILING											_					
(FEET)	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 21/2	≥ 2	≥ 11/3	≥ 1%	≥ 1	≥ %	≥ %	≥ %	≥ 5/16	≥ 4	≥ 0
NO CEILING ≥ 20000	4	` 3 • . 38 • ¥	50.00 59.00	56.4 6∃.3	56.7	55.7	67.1 51.4	7.1 -1.4	57.1 -1.4	51.4	57.1	57.1 61.4	57.1	57.1	57.5 cl.7	51.7
≥ 18000 ≥ 16000		58.0 58.0	59.2	6 • 3 5 • 3	51.	11.	61.4	61.4 61.4	51.4	61.4	51.4	01.4	51.4 51.0	61.4 61.4	61.7 51.7	61.7
≥ 14000 ≥ 12000		34.9	50.6 66.3	67.6 61.4	61.4	·1 • 4	41.7 62.4	1.7	52.4	61.7	61.7	61.7	67.4	61.7 62.4		67.1 5.,
≥ 10000 ≥ 9000		12.4 43.7	62.8	63.8 64.9	54.5 60.5	44.5	64.9	64.9 66.7	54.°	64.9 66.0	66.7 66.0	64.0	64.0	84.7 66.	υ° • ₹ υ ۴ • 3	55.3 55.3
≥ \$000 ≥ 7000	2 • 4 7 •	65.3 65.6	6.6	56.7 67.3	57.4 67.7	67.4	67.7	67.7	67.7	67.7	67.7	67.7 68.1	67.7	67.7 53.1	69.1	6.5.5
≥ 6000 ≥ 5000	3.4.3	46.7 58.1	67.	68.1 59.5	6H . B	68.9 70.3	59.3 70.6		7. 6	76.6	09 • 2 75 • 5	69.2 73.5	59.2	89.2 70.6	67.5	75.5
≥ 4500 ≥ 4000	6 n	38.6 75.65	70.9	70.0		70.2	71.5	71.3	73.1	71.3	73.1	71.3	71.3	71.5	73.4	71.5
≥ 3500 ≥ 3000	6.7	70.1	77.7	72.0	77.7	73.2	73.1 74.1	73.1	73.1	73.1 74.1	73.1	73.1 74.1	74.1	73.1	73.4	73.4 74.5
≥ 2500 ≥ 2000	4. • 6. 14.15 • 9	17 • 3 74 • 5	77.7	74 - 1	74.5	74.0	75.2		70.0	74.0	75.8 74.0	75.2 76.3	7" • 2	75 • 2: 7c •	78.4	7
≥ 1800 ≥ 1500	14	74.5	75.5 8 .1	31.6	77.7 NT.3	77.7	79.4 83.0	78.4	70.4 03.5	70.4 53.0		70.4	77.4	95.4	79.7	70.7
≥ 1200 ≥ 1000	74.5	35.9 53.8	34.4	13.3		54.0 96.9	84.9		84.5	87.6	84.8 87.6	54.3 67.5	27.6		67.9	7.4
≥ 900 ≥ 800	77.7	^4.0 85.5	67.5 87.6	89.7	67.9 90.1	27.0 23.1	58.7 90.8	গ্র•র গ্র•ঃ	9 7 2	38.7 93.5		85.7 90.4	\$	30.0	21.1	97. 71.1
≥ 700 ≥ 600	7.0	86.4 36.9	88.3	93.4	93.8	40.8	91.5	31.5	91.5	93.3	91.5 93.8	91.5	68.3	91.5	91.6	91.0
≥ 500 ≥ 400	72.	.6.4 .6.4	87.	93.4 96.08	92.6	2.5	94.0	ે <b>ય . !</b> ુપ . 7	94.7	94.C 94.7	94.7	94.7	94.7	74 . 7	94.3 CE.	9
≥ 300 ≥ 200	7	47.2	87.4 87.4	71.5 41.5	93.1	3.3	95.	05.4 25.4	95.4 95.4	96.1	96.1	56.1 96.1	· 5.1		75,5	~6.F
≥ 100 ≥ 0	7 • 7	37.3	\$ 50 P	\$1.5 \$1.5	93.3	3.3	95.	35.4 38.4	₹5.4 95.4	96.5	97.2	97.2	62.7 62.7	ंड•द 7 <b>%</b> •ध	98.5 98.9	100.1

TOTAL NUMB	ER OF	<b>OBSERVATIONS</b>		

DIRNAVOCEANMET

1.40

### **CEILING VERSUS VISIBILITY**

# PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING	VISIBILITY (STATUTE MILES)															
(FEET)	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2%	≥ 2	≥ 1%	≥ 1%	≥ 1	≥ %	≥ %	≥ %	≥ 5/16	≥ ¼	≥ 0
NO CEILING	-7.	49.3	47.0	£ . •		20.7	51.1	11.4	51.4		51.0	51.4	21."	1 - '	52.1	!
≥ 20000	100	1.200	53.6	-4.3		**•t	55.0	45.3	15.3	35.7	35.7	55.7	55.7		56.5	5 •
≥ 18000 ≥ 16000	1 • 1	77.4	53.6	54.3		14 • 6	55.7	5.3	55.3 55.3	55.7 55.7	55.7 55.7	35.7	55.7		54.0	6.5
≥ 14000	1.01	53.8	51.0	14.6	54.	15.7	55.3	55.7	55.7	500	50.0	55.6	32.0	55.0	51,04	6500
≥ 12000	1.	- 3 - 4		53.0		·5 · 3	55.7	55.0	2 B • C	51.04		16.4	54.4	<u> </u>	56.7	
≥ 10000 ≥ 9000	3.6	50.4	57.3	57.8	_	18.2	53.5	୍ର ସ୍ତ୍ର	50.0	50.9	37.7	57.2	39.2	59.2		
	5 2	₹8.2		7.9	60.2	49.1	50.6	ر 1.00	51.0		41.4	51.4	41.4	11.4	·	
≥ 8000 ≥ 7000	5.3	50.2	1 1	59.9	- 1	-0.3	50.5	61.0	1.0	61.4	91.4	61.4	61.4	51.4		
≥ 6000	. · · ·	59.0	6 . 3	61.0	51.4	11.4	61.7	42.1	52.1	62.4	57.4	1.2.4	2.4	62.4	t. 2 . F	6:05
≥ 5000	,, =	÷1.7	47.1	62.3		73.1	43.5	63.9	63.6	54.2	64.2	54.2	54.2	64 . 2	54.5	54.5
≥ 4500	57.1	11.4	, > , H	53.5	63.8	43.3	44.2	44.5	64.0	64.9	64.0	64.9	₹4.0		_	,
≥ 4000	- 1	12.4	5	54.5		54 . 9	65.3	55.6	45.6	55.	200	66.7	2000	<del></del>	65.3	16.
≥ 3500 ≥ 3000	5 9	.2. a	63.5	64.5 68.0	64.7	*#•?	65.3	5.6	55.4	57.4	67.4	67.4	1.7.4	67.4	67.7	67.7
	1.0	4 . 1	44.1	67.0		57.7	68.1	43.4	5 . 4	57.8	64	65.8	4.5.0	1.8	69.7	6 5 2 5
≥ 2500 ≥ 2000	0	60.1	60.5	7 1. 5	71.5	71.3	71.6	72.0	72.0	72.3	72.3	72.3	77.3	12.3	72.7	72.7
≥ 1800	5.	40.0	7 . 3	77.3	77.1	73.1	77.4	73.8	73.8	74.1	74.1	74.1	74.1	74 . 1	74.8	74 .5
≥ 1500	ي و ردد	73.4	75.5	77.	77.7	77.1	78.3	78.4	7 . 4	79.1	70.1	77.1	30.1	75.1	70.4	76.
≥ 1200		78.	8 . 1	41.6		2.5	8	3.3	63.3	34.5	64.3	. 4 . 7	4 • 0	34.0		, ,
≥ 1000	.' • 1	• 1	82.3	24.01	3 - 1	45.1	55.5	15.5	85.4	36.5	86.5	65.5	56.2	18.05	36.0	B C
≥ 900 ≥ 800	3 . 4	1.04	83.0 33.7	35.2	87.6	55.3	36.2	36.3	80.5	89.	87.3 80.0	67.2 89.0	57.6			27.7
	. 5 4	1.0	24.0	45.5	37.9	7.3	50.3	19.5	3 3	39.7	30.7	30.7		100	4	
≥ 700 ≥ 600		11.4	54.0	7.2	88.7	38.7	89.0	87.7	87.7	90.6	9 . 2	7	ه ه ما	1.1	01.5	, ,
≥ 500	74.1	.2 • 5	QC.5	920 7	97.1	19.3	90.1	ा - इ	21.5	92.6	92.6	02.6	7 9	72.5	34.3	57.3
≥ 400	Y 4 . 1	3.	95.03	Fy.4	21.1	_ ? 1 • 1	91.9	65.6	72.6	93.0	43.0	93.4	ેલ • ₹	94.3	94.7	04.7
≥ 300 ≥ 200	74.1	F 3 . (	35.8 65.3	89.4 69.4	91.1	1.1	77.6	3.3	97.4	74.3		94.3	45.0	(	97.2	
				90.4		1.5	93.3	24 . 3	34.7	95.7	05.7	95.7	26.5			
≥ 100 ≥ 0	• 1	13.01 13.01	85.8	53.4		1.5	93.3	24.	\$ 4 4 5 C	76.1	96.5	96.5			98.5	

 ••		2	•	.3

CEILING							VIS	IBILITY (ST	ATUTE MIL	ES)						
(FEET)	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 21/2	≥ 2	≥ 1%	≥ 1%	2:1	≥ %	≥ %	≥ %	≥ 5/16	≥ 4	≥ 0
NO CEILING ≥ 20000	5	47.	47.3	44.7	45.7	46.8	46.5		45.5	46.5	46.08	96.5	46.0		45.5	46.5
<u> </u>	1403	<u> • 8 • 2</u>	5,	1.4	52.5	3,:	53.2	3.5	\$3.7	53.2	3.00	<u>- 1,6</u>	7.7.5		53.6	
≥ 18000 ≥ 16000	: 4 . 3 - 4 . 3	40 • d 30 • d	5°•0	* 1 • 4 • 1 • 4	52.5	13.2	53.2 53.2	73.2 3.2	53.7	53.2	53.5	53.6	5 4 . 6		57.6	53.6 53.6
≥ 14000	. 3 . 7	4 . 7	5	5 1 · b		3.6	53.6		53.6	53.6	52.9	53.9	7.9	,	53.6	
≥ 12000	4 3	15.9	50.7	13.5	53.6	.4.3	54.3	14.3	54.3	54.3	54.6	54.6	24.6		54.6	4.6
≥ 10000	4 1	4.0.4	52.5	*4.3	55.1		56.3	**	35.5	56.0	50.4	56.4	55.4		(6.4	
≥ 9000	4. 1	90.7	52.8	54 . 6	39.7	55.4	54.4	56.4	55.4	50.4	55.7	56.7	56.7	56.7	56.7	22.7
≥ 8000	() 4.	51.1	33.6	55.3	37. 4	57.1	57.1	57.1	57.1	37.1	57.5	57.5	57.5	57.5		-7.
≥ 7000	47	1.	54.5	56.0		57.5	57.8		57.*	57.6	59.2	53.2	42.2	58.2	52.2	59.2
≥ 6000	4 . 5	53.6	560.	57.0	59.0	9.6	57.6	29.5	59.5	57.6	59.9	59.9	59.0	50.4	50.7	95.0
≥ 5000	31.	2.7	54.2	57.9	51.	63.7	61.7	52.7	61.7	62.7	52.1	62.1	62.1	52.1	52.1	54.1
≥ 4500	. 4	56.4	50.9	60.6	51.7	62.4	62.4	52.4	52.4	52.4	62.8	62.8	67.4	43.2	57.2	6.00
≥ 4000		36.4	5 2 . 7	5 5	51.7	62.9	62.4	52.4	52.4	62.4	62.9	6".3	57.8	4.2 . 2	62.8	67.8
≥ 3500	9.0	36.7	55.7	61.3	62.1	52.3	62.3	52.8	62."	62.8	53.1	c 3 - 1	65.1	63.1	53.1	13.4
≥ 3000	2.1	* D • 3	61.0	62.8	53.8	64.5	64.9	54.9	34.7	64.0	65.3	65.3	65.3	65.3	35.8	2500
≥ 2500	3.3	58€6	62.4	64.5	65.6	60.3	66.7	56.7	65.7	65.7	67.	57.2	67.0	67.	67.0	67.
≥ 2000	5.03	1.2.1	80.0	67.7	69.2	70.2	70.6	78.6	73.5	73.0	7 5.9	70.9	7 . 3	77.9	73.5	7, . 7
≥ 1800	1 to • 4	43.5	56.7	÷ 9 , 4	63		71.7	71.3	71.3	71.3	71.6	71.5	71.6	71.5	71.5	71.6
≥ 1500		67.	77.7	77.1	73.A	75.2	75.5	75.5	79.5	75.5	75,0	75.3	74.9	75.1	75.9	
≥ 1200	• 1	53.4	1	73.5		77.	77.5	77.5	77.3	77.3	77.7	77.7	77.7	77.7	77.7	?7.7
≥ 1000	• 1	4.5.2		75.2	77.5	*1.2	*1.6		51.5	21.6	81.0	51.9	37.3	62.3	02.3	* .
≥ 900	1	59.5	74.5	77.	₹0.5		52.3		85.3	. 3	3. 6	82.6	9.0	13.0	53.7	43.7
≥ 800	1:03	59.7	1 2 4 2	78.7	A.7.3	2 <b>0</b> 0	94.8		95.1	83.1	45.5	25.5	9	65.5	85.8	85.2
≥ 700		70.9	1	79.4	33.7	35.5	86.9		47.7	17.2	7.5	87.0	87.9		67.5	27.9
≥ 600	4C • 5	70.9		79.4	34.7	2005	87.6		37.0		88.3	36.3	35.7		38.7	åt.7
≥ 500	•	71.6	77.3	20.1	83.8	7.9	90.1	53.8	31.5	91.5	37.2	97.2	45.4		97.9	71.9
≥ 400	• 1	71	77.3	33.5	*6.7	*9.3	91.5		65.0	92.9	94.3	54.3	74.7	75.	95.	35.
≥ 300 ≥ 200	• ]	71.4	77.3	9.5	86.3 86.5	23.3	91.8	93.3	94.7 94.7	94.0	95.7	95.7	74.5 73.6	98.6	98.9	95.9
<del></del>	• /	7	77.3	A -5		-6.7	97.2	7. 6	44.3	95.3	97.5	7.5	98.9			170.0
≥ 100 ≥ 0	• 4	71.3	77.3			-8.7	97.2	3.6	74.3	25.	77.5	97.5	44.4			
لنستا					_ ,,,,		-/							, , ,		

TOTAL NUMBER OF OBSERVATIONS

DIRNAVOCEANMET SMOS

1.4

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NO

**CEILING VERSUS VISIBILITY** 

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

### **CEILING VERSUS VISIBILITY**

STATION NAME

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

NOURS (L S 7 )

CEILING	VISIBILITY (STATUTE MILES)															
(FEET)	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 21/2	≥ 2	≥ 1%	≥ 1%	≥ 1	≥ ¥	≥ %	≥ 16	≥ 5/16	≥ ¼	≥ 0
NO CEILING	-4.	40.9		4 . 9	42.0	48.9		42.4	4.00	47.9	4:20	47.0	47.9	48.5	46.3	40,5
≥ 20000	1.3	* C . A		54.4	56.4	55.4	56.4	£ 4, 0 H	50.4	50.4	56.04	55.4	57.4	56.4	56.4	56.4
≥ 18000	1 • 1	55.4	50.4	55.4	56.4	56.4	55,4	° 1, 4	5000	50.9	54.4	55.4	5	55.4	55.4	55.4
≥ 16000	1.9	30.7	50.7	56.7	36.7	56.7	55.7	44.7	5	51.7	56.7	5 . 1	: 5.7	.6.7	56.7	36.7
≥ 14000	1.	57.1	57.1	7.1	57.1	7.1	57.1	1.7.1	57.1	57.1	57.1	37.1	17.1	57.1	37.1	F 7 - 1
≥ 12000	13.	50.2	54.2	5 , 2	59.2	19.0	20.5	79.2	2 2 2	33.6	59.7	57.2	50.2	59.2	20.2	17.2
≥ 10000	50.0	1.7	51.7	62.1	67.1	62.1	52.1	62.1	60.1	22.1	57.1	68.1	67.1	52.1	67.1	
≥ 9000	C. J	1.7	61.7	62.1	62.1	65.1	52.1	52.1	82.1	62.1	+2-1	12.1	37.1	12.1	6.7.1	• • • • •
≥ 8000	Se . 4	12 4	52.4	42.3	67.4	12.5	62.3	72.9	42.5	62.3	32.8	62.8	b 7•8	12.5	62.5	
≥ 7000	30.7	63.1	63.1	53.8		93.6	63.9	63.5	63.4	53.5	6 . 3	63.4		63.	63.4	13.5
≥ 6000	54.07	53.1	5 3 - 3	63.8	67.8	63.8	47.5	13.3	53.5	53.8	67.8	53.8	67.8	63.5	53.3	54.5
≥ 5000	23.2	-4-3	64.5	65.3	AS . 3	65.3	55.3	15.3	55.3	55.3	5.3	63.3		65.3	1.5.3	44.2
≥ 4500	50.5	67.0	57.5	65.3	67.7	56.5	65.5	67.7	67.7	67.7	64.7	67.7		56.3	66.3	55.
≥ 4000		67.7	5 7 9	58.4	52.4	-3-4					68.4		67.7	67.	5 7 . 7	
≥ 3500 ≥ 3000	. 2	70.0	70.4		- (	(	71.5	71.	71.4	71.6	71.6	71.6	71.5	69.4	71.6	71
	7 9 7	72.7	7 2.3	73.5	71.6	74.1	74.1	74 . 1	74 . 1	74-2	74.1	74.1	-	74	741	7.1
≥ 2500 ≥ 2000		75. 5	7	77.3	77.7	77.7	77.7	77.7	77.7	77.7		78.0	7	78	79.0	, ,
	-	20.4	77.	75.	78.4	78. 1	7	713.44	7.0	78.4	70.5	96 9	70.7	34 5	7. 9	7.7
≥ 1800 ≥ 1500	3 9	73.7	7 . 4	8 5	81.2	1.2	اه م	1.2	11.2	1.1.2	31.6	1.0	1.6	31.6	1	4 1 4
<del></del>	-	50.4	87.3	83.3	H 4 . 4		84.4	44.4	34.4	4 . 4		34.5	2 4 4	84.	24.2	ক্র
≥ 1200 ≥ 1000	7 9 4	1.4	23.3	34.8	30.7	37.2	87.2	27.2	÷7.2	87.2	a 7 . 6	£ 7 . 5	£ 7.6	37.0	17.6	37.1
<del></del>	7	1.3	4	35.1	27.2	17.5		-7.6	7.6	37.6		7.0	7.9		87.7	7 6
≥ 900 ≥ 800			34 8	65.5	30.4	9.7	67.7	= y . 7	80	69.7		90.1	1	7.1	95.1	0, 1
<del></del>		3.3	85.1	37.2	91.1	70.4	91.1	1.1	71.1	71.1	0 1 13	51.3	\$1.R	71.9	91.8	71
≥ 700 ≥ 600		23.7	86.2	39.1	92.2	2.0	94.0	28.0	94.0	34.3	95.0	25	25.0	05	95	
	7 ,	13.7	85.2	80.7	3 7 . 3	74.3		°5.4	75.4	25.7	55.3	96.3	36.8	56.9	96.0	36.0
≥ 500 ≥ 400	7 . 4		86.2		93.4	~ 4 · 3	. ~ - 1	44.5	96.8	97.2	98.4	93.6		28.	94.5	
		33.7	36.7	37.1	33.5	4 . 3	95.7	3.5	76.8	97.5		99.7			103.5	
≥ 300 ≥ 200	23.0	43.7	86.2	3 . 1	4 1 6	4.3		96.5	75	97.5	99.7	99.7	• • • • •		100.0	
<del></del>	7:0	43.7	85.2	2 1	23.6	. 3	25.7	70.5	76.	27.5		99.7			130.0	
≥ 100 ≥ 0	75.0	43.7	1	00.1	93.6	4.3		96.5	84, 5	97.5	- 1	99.1	ina.a		100.7	

TOTAL NUMBER OF OBSERVATIONS 21

DIRNAVOCEANMET SMO

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11.4

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4.

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### **CEILING VERSUS VISIBILITY**

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

75-9-

CEILING							VIS	BILITY (ST	ATUTE MIL	ES)						
(FEET)	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 21/2	≥ 2	≥ 11/4	≥ 1%	≥ 1	≥ ¾	≥ %	≥ %	≥ 5/16	≥ ¼	≥ 0
NO CEILING ≥ 20000	0 . 7	7.3.6	51.4	1	51.4	53.4	51.4	-1.4	:1.4	"1.4	5 3	31.4	7).4	9104	51.4	
≥ 18000 ≥ 16000	• 5	61.6 -2.1	51.4 61.4 67.1	61.4 01.4	51.4 61.4 62.1	1.4	61.4 62.1	(1.4 (1.4 42.1	61.4 62.1	61.0 62.1	61.4	61.4	11.4	104	61.4 61.4	51.4 51.4 52.1
≥ 14000 ≥ 12000	1.0	5. Z . C	64.2	1.7 . A	67.3	62.5	57.8	5.4.2	52.5	52.0	62.5	62.0 64.2	64.2	64.2	5.3 a.F	12.
≥ 10000 ≥ 9000	3.	56.5 55.3	66.3	66.3	66.7	6.3 66.7	66.8	~5. Z	90.3 60.7	65.3 66.7	66.3	66.7	66.7	56 . T.		56.7
≥ 8000 ≥ 7000	4.7	67.0 57.0	67.	67.4 67.4	67.4	67.4 67.8	57.4 57.4	47.4 6.7.4	67.4	67.4	67.4	67.4	€ 7 • 4 5 7 • 4	67.4	67.4 57.4	
≥ 6000 ≥ 5000	6.6 .6.1	49.2	63.2	69.8	60.5	69.5	69.8 69.3	4.0 <b>.</b> 8	64.	50.08 67.5	60.5	67.5		68.8	65.4	€0,0 €4,0
≥ 4500 ≥ 4000	60 a 4		71.3 71.5	71.6 72.3	71.6	71.5	72.6	71.6	71.4	71.6	71.6	71.5	71 • 6 77 • 0	71.6 72.0	71.5	71.0
≥ 3500 ≥ 3000		73.0 75.5	77.3		72.7	12.7 15.2	72.7 76.2	72.7	72.7	72.7	72.7	72.7 76.2	77.7 74.2	77.7 75.2	72.7	-
≥ 2500 ≥ 2000	4 . 5	70.4 70.4	79.7 79.5	70.1 51	77.1	9.1	77.1	77.1	75.1 20.1	70.1 80.1	77.1	70.1 20.1	77.1	77.1	79.1 24.1	3 · 1
≥ 1800 ≥ 1500	77.3	91.2 42.3	51.4 83.3	57.3 04.0	32.3 34.4	2.3	87.3	77.3 24.4	> 2 • ₹ € 4 • 4	43.1 44.8	· · 3	12.3	. • 3 a • • #	77.3 24.4	. 7 . 5	53.5 29.5
≥ 1200 ≥ 1000	7 . 4	45.5 57.2	35.9 34.3	98.3 90.4	83.4 91.6	29.4 01.8	80.4 97.2		59.4 77.2	85.4 92.2	90.4 92.2	89.4 92.2	67.4 -2.2	72.4	€%.4 97	90.4 5.0
≥ 900 ≥ 800	7 4	27.7 37.9	# 3 · 3	93.4	91.8	42.0	92.6 94.3	i	72.6	92.6 94.3	92.6	77.6	54.3		97.6 84.8	0 °
≥ 700 ≥ 600	•!		89.4	92.5	94 . ¥	6.4	95.7 96.3		75.7 76.8	95.7	95.7 95.5	96.3	35.7	96.5	95.7 16.6	95.7
≥ 500 ≥ 400	. 1	7.7	9 1 1	93.6 93.0	76.1	7.2 -7.5	97.5	24.2	97.5	99.6	99.9	97.5	1. 1 . 5 9 2 . 9	99.3	97.5	44.
≥ 300 ≥ 200	·0•3	7.7	90.1	3.6	76.1	97.5 97.5		95.2 98.2	44.2 74.2	93.6	99.3	49.3		1 5.0	.9.7 195.0	
≥ 100 ≥ 0	6.1	7.0	90.1	43.6	96.1	7.5	99.2	38.2	94.7	93.6 98.6	30.3	1			100.0 100.0	

					-	
TOTAL	NUMBER	OF O	BSERVATION	\$		•

### **CEILING VERSUS VISIBILITY**

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING							VIS	IBILITY (ST	ATUTE MIL	ES)	·					
(FEET)	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 21/2	≥ 2	≥ 11/4	≥ 1¼	≥ 1	≥ 44	≥ %	≥ 1/3	≥ 5/16	≥ ¼	≥ 0
NO CEILING ≥ 20000	4.9	55.7 66.7	35.7 66.7	67.0	50.0 67.0	7.0	55.0 67.0	55.0 57.0	56.4 67.6	55.4 67.4	67.4	50.4 57.4	50.4 (7.4	55.4 57.4	55.4	51.4
≥ 18000 ≥ 16000	3	67.	67.0 67.	67.4	57.4	67.4	67.4	67.4 67.4	57.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7
≥ 14000 ≥ 12000	3 e	67.7	67.7	54.4 64.4	59.1	58.4	69.4	13.1 48.4	60.4	60 • 4 68 • 9	δε.¥ 63.63	1.6.4 (1.3	65.4 54.8	68.6	65.4 65.4	59.4 53•3
≥ 10000 ≥ 9000	57.7	.9.5	60° 6	£9.5	59.9 77.2	13.7	80.9 70.2	49.9	7 . 7	73.2	7 . 5	71.02	7 . 2 7/ . 4	70.2	70.0	77.7
≥ 8000 ≥ 7000	4 + • €	71.6	71.4	72.0	72.5	72.0	77.5	72.5 77.5	72.7	72.3	77.3	72.3 72.3	72.3	72.3	77.5	7. • 7
≥ 6000 ≥ 5000	0.5.0	72.7	77.4	72.3	73.3	72.5	77.7	72.3	72.7	72.7	72.7	72.7	72.7	72.7	72.7	77.7
≥ 4500 ≥ 4000	4	4 • 5	75.5	77.2	77.7	75.5	75.5	77.5	74.0	75.0	75.2 71.	75.9 79.0	75.9 7:.0	74.0	75.7	72.5
≥ 3500 ≥ 3000		77. 4 78.4	73,7	7 4	79.4	79.3	79.4	70.4	79.9	79.8 50.5	79.3	79.8	70.8	79.2	79.A	75.0
≥ 2500 ≥ 2000	7 • 1	79.4	1	47.5 12.6	63.5	5.7	31.2	1.2	14.4	81.6 84.6	81.6 54.4	61.5	21.6	11.5	11.5	1.4.6
≥ 1800 ≥ 1500	,	3 5 • 1 11 5 • 7	3 • 7 84 • 5	67.2	25.1	5 38 . 7	85.8 84.0	35.8 55.0	82.4	FE.2	86.2 89.4	80.4		°°°°;	37.4	10.0
≥ 1200 ≥ 1000	•	\5 • 1 + 5 • 4	97.5 87.5	91.1	35.5	71.1	?1.5 \$4.3	1.5	01.0	91.7	91.3 94.7	91.8 24.7	14.7	74.7	74.7	34.3
≥ 900 ≥ 800		(6 • 2 (6 • 5	82.7 85.4	92.2	94.8	6.1	98.4 98.3	5.4	75.7 75.8	75.7 75.7	35.7	92.7 96.a	75.7 96.9	56.7	96.5	95.5
≥ 700 ≥ 600	.)• ೧•5	· 5 • 3	89.4 89.7	92.6	95.1	7.5	97.7	76.3 70.2	ওপ <b>ু</b> ক ওঘ⊾ন	77.2 54.6	98.6	44.5	97.2 97.5	97.2 78.6	97.2 98.5	97
≥ 500 ≥ 400	1 . 7	75.4 5.4	37.7	92.6 93.6	96.5	07.9	98.2	>8 € €	32°0	\$3.5 \$9.5	77.3	79.3	95.3	98.5	\$2.9	38.5
≥ 300 ≥ 200	• 1	16.5	87.7	93.6	96.5	7.0	9°.6	9. 3° 9. 3°	>7.1	100.1 150.0	103.0		100.0	100.0	100.0	100.5
≥ 100 ≥ 0		6.9 6.9	87.7	93.6 93.6	96.5 96.5	7.9	98.6 96.6	2 M → 9	- 1	186.8 188.6		;	- 1	1		- 1

OTAL	NUMBER	OF	OBSERVATIONS	2#.

7122 X54 T1

### **CEILING VERSUS VISIBILITY**

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING	-						VIS	BILITY (ST	ATUTE MIL	ES)						
(FEET)	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 21/2	≥ 2	≥ 114	≥ 1%	≥ 1	≥ 4	≥ %	≥ %	≥ 5/16	≥ ¼	≥ 0
NO CEILING ≥ 20000	5 • 1	68.5 55.6	65.3	64.3 08.3	50.0	? • 3	5 . ?		65.3	5:02	. 1	59.2	52.7 23.3	5.6	50.2 56.3	
≥ 18000 ≥ 16000	7.1	65.6 65.6	56.3	~ 5 + 3 e 4 + 3	50 . 3 65 . 3	6.3	66.3	50.3	16.3	60.3	. 5 . 3 se . 3	66.3	55.3 11.3	56 . 3 66 . 3	56.3	
≥ 14000 ≥ 12000	3.	55.6	66.3	56.5	65.8	16.3	66.3	60.3	05 a 3	6 t . 3	65.3	56.3 56.3	66.3	56.3 56.3	ر ا اگار وا ن	
≥ 10000 ≥ 9000	6.7	58. E	67.0	\$3.9	67.9	49 g	69.5	59.9	39.0	69.5	59.5 60.9	69.5 69.9	59.5 53.0		59.5	
≥ 8000 ≥ 7000	6 •0 2	71.5	77.3	72.3	77.0	12.3	72.0 72.3	77.0 77.5	72.0	72.3	77.3	72.3	/7.0 77.3	72.3	77.	7 . 1
≥ 6000 ≥ 5000	7	72.	77.7 74.8	77.7 74.8	72.7	72.7	72.7	72.7	79.7	73.7	7 ] . 7 14 . R	72.7 74.5	77.7	72 . 7 74 . 8	72.7	
≥ 4500 ≥ 4000	73.1	**•5	75.2	75.2 77.6	75.2 77.0	75.2	75.2	73.2	17.2	75.2	75.2	7 ° • 2 77 • °	77.0		75 • ? 77 • !:	77.
≥ 3500 ≥ 3000	75.7	77.7	79.4	70.4 20.1	78.7 60.5	70.7	73.7 80.5	71.7	70.7	8 .5	- 1	75.7	75.7	78.7 80.5	74.7	72.3 2.42
≥ 2500 ≥ 2000	75 + 4	70.9 93.	11.6 33.7	41.5 44.7	31.7	11.3	81.7	4.4	20,0	31.4 84.4	*1.7 24.4	91.4	21.9 14.4	*1.0 28.4	#1.4 <u>#4.4</u>	· 1 • •
≥ 1800 ≥ 1500	1	(5 • 1 35 • 8	85.3	86.9	56.5 87.6	20.5	86.5 87.5	7.5	:7.4	35 € 5 37 • €	37.5	37.0	, , , ,	97.6	67.6	€ 5 • ·
≥ 1200 ≥ 1000	3.	90.1	97.9	50.) 71.1	99.7	39.7 32.9	27.7	10.7	35.0	92.4	42.3	92.3	6.0	92.	87.7 22.€	€ 1 . 7 2 <u>2 . 9</u>
≥ 900 ≥ 800	- 4 • 3 - 5 • 1	97.4	91.1		93.4	33.6	93.5 96.5	15.5	25.5	93.0 93.5		93.6 36.5	14.5	93.5 26.5	96.5	9.
≥ 700 ≥ 600	5.3	71.5	91.5	13.5	96.1	76.1 -6.5	96.3	27.2	36.7	96.5	95.3	96.8	94.F	97.2	96.5	75.
≥ 500 ≥ 400	6	77.7	93.3	74 • 1) 64 • 7	96.8 98.2	49.0		07.7	77.7	97.9	97.9	97.9	0 0	9 <b>9.</b> 3	37.9	40.
≥ 300 ≥ 200	5.5	3 . S	94.3 94.3	95.19 95.19	36.66	46.9	79.7 59.7	29.7	99.7	:60.0	100.។	133.0	147.0	100.4	105.0	176.
≥ 100 ≥ 0	5 · 4	33 • 3 33 • 3	94.	35.7 35.0	98.A	9.9	99.7	39.7 39.7	99.7		100.0				100.0 100.0	100.0 100.

TOTAL MILMORE	OF OBSERVATIONS	
IOINT HOMBER	OF OBSERVATIONS	

DIRNAVOCEANMET SMOS

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#### **CEILING VERSUS VISIBILITY**

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

VISIBILITY (STATUTE MILES) CEILING (FEET) ≥ 6 ≥ 3 ≥ 21/2 ≥ 1% ! ≥ 1% ≥ 10 > 5 ≥ 4 ≥ 1 ≥ ¾ ≥ % NO CEILING 3.6 € 5 ≥ 20000 ≥ 18000 ≥ 16000 + 2.7 65.8 51.0 01. ≥ 14000 ≥ 12000 61.3 61.0 61.9 . ? . ≥ 10000 ≥ 9000 54.5 64.7 36.2 1,6.1 8000 7000 ≥ 4° . 4 66.5 35.5 6000 5000 58 . A 58 . O 69.0 4500 4000 71.1 71.5 71. 3500 3000 73.7 73.4 77.0 73.0 74-<u>≥</u> 2500 2000 75.7 71.66 77.8 7:07 78.2 75.4 7. .5 7. .6 70.6 1800 1500 P7.9 1200 <u>></u> 900 800 41.5i 700 600 93.7 4.5 1.12.1 3.6 ٠7. 54 . 1 .. 4 . 9 94.1 26.7 27.5 98. 7 46.00 100 77.7

OTAL	NUMBER	OF	OSSERVATIONS	

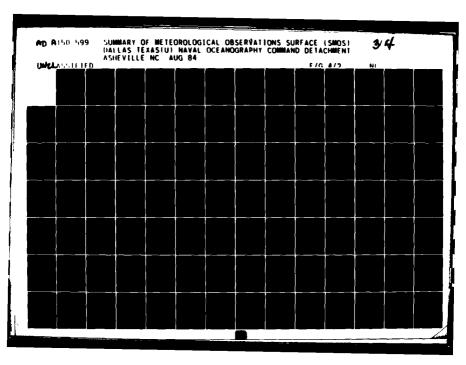
13.

### **CEILING VERSUS VISIBILITY**

# PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING				-			Vis	SIBILITY (ST	ATUTE MIL	.ES)						
(FEET)	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 21/2	≥ 2	≥ 11/2	≥ 1%	≥ 1	≥ %	≥ %	≥ %	≥ 5/16	≥ 1.	≥ 0
NO CEILING			υ.,	· 7	£1.	11.1	1.7	2 1	1.0	i • "	71.3	4:00	1.4	11.	<del>-</del>	
≥ 20000	0.0	100	50.7	( 7	50	59,	64.		٠ و ٠ ي	•	73.0		•		• ? •	
≥ 18000 ≥ 16000	• :		5 . 1		5 1 a 4	30 . 4 (9 . 7	5,0 € 6,0 €	1 1/2 a	K 1 • 4 € 0 • 7	13 1 4 M 16 17 9 7		7	7	,	30.4 60.0	
≥ 14000 ≥ 12000			62.7	7.7	7 . 7	71.5	70.	70.	71.	7 4.0	1	7 . 7	•	,	/1.	71.
≥ 10000 ≥ 9000		71		74.5	74.0	14.0 14.0		74.3	74.0	74.5	74.	74.3	74.3	74	*4.5	
≥ 8000 ≥ 7000		77.1	77	7	76.0	5.6	75.8	** • 8	7000	70.5	70.0	7000		75, 6 5	3.2	
≥ 6000 ≥ 5000	•	1	77.4	7.4	77.4	77.7	77.1		77.7	77.4	77.7	77.4	77.7	7 7	77.	77.
≥ 4500 ≥ 4000	7.	79.4	51.7	7 7 6 4	51.	1.0	73.7	1.0	1.	7.4.	7 . 7	1.		1.	1.	
≥ 3500 ≥ 3000	1		8	1.6	27.9		57.6		1.5	•	i	•	c	- 104	- • •	
≥ 2500 ≥ 2000	•		30.1	1 1		6 . 1	36.45 56.45	10.7	4.0	30.5	14 6 5		* (	35.5		-, -
≥ 1800 ≥ 1500	5.5	6.1		6 3 • C	요 , • 4	9.4	85 g 4	. 3.4	•	3			- 2 - 4	7.6		
≥ 1200 ≥ 1000	7.4		91.3		01.6	1.5	7.2.	11.3	1.4	71.	1.0	51.1	1 0	1.		
≥ 900	10.0	72.0	97.0	-3 . h	137.6	3.9	7. L	4.3	23.60 34.03			740	* * * *		<u> </u>	•
≥ 700	10.3 10.7		26.1	20.1	75 . °	-6.5 -5.8	97.1	· 7 • 1	\$7.1	7 • 1	÷ 7 • 1	77.1	• 1		<del></del> ;	
≥ 600 ≥ 500	• 7	E	9000	77.1	07.4	7.4 7.1	27.7	7.7 17.44	5.3.4	ច្គ ្ន	- 1	20.4		10.4	-7	
≥ 400 ≥ 300	1.	5 a 1	97.4	78.7	97.	9.7	99.4 93.4	7.4	27.4	30.00	75.4	77.4 27.4	~ ? . u	20.5	70	
≥ 200	1.	4.6	7.7	71 7 4	97.4	9.4	95.7	39.7	57.7	130.7	10.00	100.0		— <del>-</del> - <del>-</del> -	1 2 7 • 5	1
≥ 100 ≥ 0	1.	5.5		09.	2 2 4	) . 4	77.7	_ :			15 7 . "	1 7 1	_			

TOTAL NUMBER OF OBSERVATIONS	







MICROCOPY RESOLUTION TEST CHART NATIONAL BUREAU OF STANDARD-1963-A

### **CEILING VERSUS VISIBILITY**

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

73-57

VISIBILITY (STATUTE MILES) CEILING (FEET) ≥ 10 ≥ 6 u¢, NO CEILING \* 3 . . 54.5 ≥ 20000 44.5 54.5 54.5 55.2 55.2 55.2 55.2 55 . 8 "5 . B 55.8 56.8 50.C 60.0 ≥ 10000 ≥ 9000 41.3 61.3 51.3 63.6 63.6 63.6 43.6 ≥ \$000 ≥ 7000 6000 5000 65.2 67.7 67.7 67.7 63.7 68.7 68.7 4500 4000 69.7 69.7 69.7 69.7 64.7 69.7 69.7 69.7 71.0 71.0 71.0 71.0 3500 72.6 72.6 72.6 72.6 72.6 72.6 75.5 2500 2000 74.7 79.0 79.0 79.0 79.0 79.0 79.0 79.0 73.7 78.7 31.3 73. 81.0 #1.3 \*1.3 61.3 81.3 81.3 81.3 85.5 35.6 95.8 3 . E 41. 35.2 85.5 85.9 85.4 90.7 90.0 20.7 90.7 90.3 92.9 93.2 93.6 73.2 33. 900 94.5 94.2 94.5 96.5 700 600 97.4 37.4 96.6 98.1 38.1 28.1 98.1 98.1 500 400 9.4 93. 93.4 93.4 300 200 29.4

99.4

39.4

99.4

94.4

99.4

99.4

TOTAL NUMBER OF OBSERVATIONS

99.4

99.7 99.7h57.0h00.0h00.0h

DIRNAVOCEANMET

73.7

98.1

97.1

r.a . 4

### **CEILING VERSUS VISIBILITY**

73-17

# PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING							VIS	HBILITY (ST	ATUTE MIL	ES)						
(FEET)	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 21/4	≥ 2	≥ 1%	≥ 1%	≥ 1	≥ ¥	≥ %	≥ %	≥ 5/16	≥ 4	≥ 0
NO CEILING ≥ 20000	37.9	42.5	42.9	42.9	47.1	47.4	43.6	43.6	43.6	43.9	43.9	42.0	44.2	44.2	44.7	44.7
≥ 18000 ≥ 16000	-3.7	46.9	47.4	47.4	47.4	47.7	48.1	48.1	48.1	45.4	47.4	48.4	40.7	48.7	48.7	48.7
≥ 14000 ≥ 12000	3.6	47.1	47.7	47.7	47.7	48.1	48.4 56.0	48.4	50.0	40.7 50.3	49.7	48.7	59.7	49.3	47.0	50.7
≥ 10000 ≥ 9000	48.7 48.4	53.2	\$3.9	53.4	53.9	<4.2	54.5	54.5	54.5	54.8	54.8	54.5	54.2	55.2 55.£	55.7	55.2
≥ 8000 ≥ 7000	31.0	56.5	57.1	54.5	54.5 57.1	59.8	33.2 57.7	57.7	57.7	56.1	56.1	58.1	58.4	58.4	58.4	55.4
≥ 6000 ≥ 5000	53.4	59.7	57.0	60.3	-	60.7	61.0	51.0	59.7		61.3	61.3	61.6	60.3	61.6	61.6
≥ 4500	55.5	51.3	62.3	62.3	62.3	52.6		52.9	62.9	63.2	63.2	63.2	63.6	63.6	63.6	62.6
≥ 3500	37.1	52.5	63.6	63.6	63.9	64.2		53.9	63.9	64.2	69.8	64.8	69.5	64.5	5.2	63.2
≥ 3000 ≥ 2500	61.	67.1	69.1	£ . 1	65.4	68.7	66.8	66.8	69.0	69.4	59.4	67.4	60.7	67.4	67.4	
≥ 2000	5.7.4	72.5	73.6	73.6	73.0	73.2	74.9	73.6	73.6	75.2	75.2	73.9	74.2		75.5	75.3
≥ 1500 ≥ 1200	71.7	76.1	81.3	91.3	78.1	78.4	82.9	17.0 2.9	82.9	95.2	83.2	79.4	53.6	79.7	79.7 83.6	25.5
≥ 1000	73.2	82.6	85.2	85.6	86.5	76.8	87.4	47.4	87.7	87.7	67.7	87.7	32.4	36.1	88.9	82.4
≥ 800	75.1	85.2	88.1	86.7 90.1	91.6	31.9	91.0	73.2	93.2	93.6	91.3	93.5	71.6	73.9	73.9	91.00
≥ 600	76.9	88.4	91.5	92.6	92.4	93.2	94.5	74.5	94.5	94.8	94.8	94.8	95.2	95.2	95.2	95.2
≥ 400	78.9	98.4	91.6	92.6	95.2	24.2	96.5	96.5	96.5	96.8	96.8	96.8	97.1	97.1	97.1	97.1
≥ 200	76.5	98.4	91.9	92.9	95.2	95.5	97.7	98.1	98.1	99.4	99.7	99.0	99.4	39.4	99.4 100.0	99.4
≥ 100 ≥ 0		88.4	91.9	92.9				78.1	98.1	99.4	99.7	99.7		170.0		

TOTAL NUMBER OF OBSERVATIONS

DIRNAVOCEANMET

### **CEILING VERSUS VISIBILITY**

PALLAS, TY

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

73-62

(; ?

CEILING							VIS	BILITY (ST.	ATUTE MII	LES)						
(FEET)	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2%	≥ 2	≥ 1%	≥ 1%	≥ 1	≥ %	≥ %	≥ %	≥ 5/16	≥ ¼	≥ 0
NO CEILING	36 . 1	39.0	34.0	45.5	+3.3	*0.3	40.3	43.3	43.3	40.3	40.3	40.3	47.03	40.3	40.3	
≥ 20000	<u> </u>	46.1	45.5	47.7	48.4	48.4	48.4	48.4	48.4	48.4	48.4	48.4	45.4	48.4	48.4	4 2 . 4
≥ 18000 ≥ 16000	42.4	46.9	5.0	46.1	48.7	48.7	48.7	48.7	45.7	48.7	48.7	48.7	49.7	48.7	48.7	46.7
	42.7	46.8	47.1	40,4	49.0	49.0	49.5	49.4	49.0	49.0	49.4	49.4	43.0	19.4	40.4	49.4
≥ 14000 ≥ 12000	44.5	49.5	49.4	51.0	51.6	51.6	51.6	51.6	51.6	\$1.5	51.6	51.6	51.6	51.6	51.6	51.6
≥ 10000	48.4	33.6	54.2	35.8	56.5	56.5	36.5	56.5	56.3	50.3	56.5	54.5	55.5	56.5	56.5	74.5
≥ 9000	44.7	53.9	54.8	56.5	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1
≥ \$000	30.0	35.3	57.1	53.7	59.4	59.4	37.4	59.4	= 9.4	59.4	59.4	59.4	50.4	59.4	57.4	5 . 4
≥ 7000	50.7	57.1	58.4	60.0	99.7	60.7	60.7	60.7	69.7	60.7	67.7	50.7	£".7	60.7	62.7	€0.7
≥ 4000	-1.4	58.1	59.7	61.3	61.9	61.9	51.9	61.9	61.0	61.9	61.9	51.9	61.0	51.4	61.0	61.0
≥ 5000	54.07	5C.3	62.3	63.7	64.5	64.5	64.5	64.5	54.5	64.5	64.5	64.5	64.5	64.5	64.5	64.3
≥ 4500	*3.7	60.7	62.4	64.2	64.8	8.49	64.9	f 4 . 8	64.8	64.0	64.3	64.8	64.6	54.5	64.2	64.8
≥ 4000	54.5	52.6	64.5	66.1	66.7	56.B	66.8	.66.8	66.8	66.5	66.8	66.9	05.8	56 . 8	66.8	86.6
≥ 3500	35.3	63.2	65.2	55.8	67.9	67.4	67.4	67.4	67.4	57.4	67.4	67.4	67.4	67.4	67.4	67.4
≥ 3000	56 • 1 50 • 1	54.5	66.9	67.1	67.0	69.0	69.7	59.0	60.1	69.0	67.0	69.0	-	72.3	72.3	990
≥ 2500 ≥ 2000	. • ]	67.7	71.9	77.0	73.3	72.1	72.3	72.3	72.7	72.5	75.2	77.3	75.2	75.2	75.2	75.3
	1.]	70.0	73.2	73.9	75.2	75.2	75.2	76.8	75.4	76.8	78.8	76.8	75.8	76.3	76.3	76.8
≥ 1800 ≥ 1500		75.5	78.1	80.7	82.3	32.1	97.3	A2 . 3	32.3	12.6	82.6	82.6	*2.6	#2.6	65.6	2.0
	3001	77.7	8	23.6		3.5	35.5	93.5	85.5	8 8	(5.6	33.0	35.8	35.	68	95.0
≥ 1200 ≥ 1000	6.9	79.	82.6		87.7	98.1	88.1	FE . 1	88.1	28.4	68.4	88.4	E : . 4	P8.4	8 F . 4	88.4
> 900	1.6 . A	85.1	34.2	83.1	97.1	*0.3	90.3	25.03	67.3	9:4.7	77.7	20.7	v .7	93.7	91.7	60.7
≥ 900 ≥ 900	67.2	81.d	84.8	89.0	91.4	91.9	91.9	91.9	91.9	92.3	92.5	92.3	97.5	62.3	72.3	97.3
> 700	67.4	81.6	85.5	19.7	92.6	72.9	92.9	25.6	¥2.8	93.2	93.2	93.2	93.2	93.2	93.2	93.2
≥ 700 ≥ 600	67.4	A1.6	35.4	90.3	93.6	74.7	74.5	94.5	94.5	95.2	95.2	95.2	95.2	25.2	95.2	95.2
≥ 500 ≥ 400	57.4	# Z . 3	85.4	91.3	94 . 5	75.5	95.4	95.3	75.	96.5	96.5		26.5	96.5	96.5	96.5
≥ 400	57.4	42.3	80.4	71.6	95.2	76.5	97.1	97.1	27.1	94.4	99.4	98.4	90.0	98.4	79.4	4 . 4
≥ 300	67.4	92.3	86.5	91.6	95.5	27.1	97.4	97.4	97.4	99.4	99.4	99.4	99.4	99.4		84.4
≥ 200	67.4	M2.1	86.8	91.6	95.5	77.1	97.7	97.7	78.1		100.0					
≥ 100 ≥ 0	67.4	32.3	86.4	91.6	95.5	97.1	97.7	37.7		1				100.0		
≥ 0	57.4	82.3	86.8	91.6	75.5	37.1	97.7	97.7	98.1	170.0	100.0	100-0	107.0	100.0	TCU.C	IOC.U

TOTAL NUMBER OF OBSERVATIONS

316

### **CEILING VERSUS VISIBILITY**

# PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING					_		VIS	IBILITY (SI	ATUTE MIL	.ES)						
(PEET)	≥ 10	≥ 6	≥ \$	≥ 4	≥ 3	≥ 2%	≥ 2	≥ 1%	≥ 1%	≥ 1	≥ %	≥ %	≥ %	≥ 5/16	≥ ¼	≥ 0
NO CEILING ≥ 20000	44.5 54.2	56.1	46.1 56.2	46.1 57.1	46 · 1	46.1	57.1	46.1	45.1	45.1 57.1	44.1 57.1	46.1 57.1	46.1 57.1	46 .1 57.1	46.1 57.1	463 57.
≥ 18000 ≥ 16000	4 . 4 . 4 . 5	56.5	57.1	57.4 57.4	57.4	57.4		67.4 37.4	57.4	57.4	57.4 57.4	57.4 57.4	57.4	57.4	57.4 57.4	57.4
≥ 14000 ≥ 12000	37 1	36.5	57.1 60.0	57.4 62.3	57.4 60.3	57.4 60.1	57.4 60.3	57.4 50.3	57.4 50.3	57.4 63.3	57.4 60.3	57.4 60.3	57.4 62.3	57.4	57.4	87.1 60.1
≥ 10000 ≥ 9000	50 €0 50 €0	52.3	62.9	62.9	63.2	62.9 63.2	62.9	62.9	63.7	62.9	62.9	67.9	67.9	62.9	63.3	67.6
≥ 8000 ≥ 7000	50.7 51.6	65.5	65.2	65.5		65.5	65.5	55.5 55.5	65.5	65.5 66.5	65.5	65.5	65.5	55.5	65.5	6.
≥ 4000 ≥ 5000	61.3 3.2	67.1	66.5	66.6	65.1	66.8	68.1	66.8	55.F	55.1	64.4	56.3	55.8	66.1	69.1	60.0
≥ 4500 ≥ 4000	53.7 :6.5	67.7	71.0	71.3	71.1	71.3	71.3	71.3	65.7 71.3	58.7 71.3	69.7	71.3	58.7	71.3	71.3	71.
≥ 3500 ≥ 3000	5.8 . 1	71.9	77.1	77.4	77.4	73.2 77.4	77.4	77.4	73.2	77.4	77.4		77.4	77.4	77.4	73.2
≥ 2500 ≥ 2000	75.2	92.3	33.6		84.2		84.5	74.5	44.5		84.5	24.5	84.5	84.5	89.5	P
≥ 1800 ≥ 1900		37.4	87.	86.6	89.7					90.2		90.0	40.0		99.0	97.1
≥ 1200 ≥ 1000	31.9	91.6	93.2			94.2	94.5	94.2	94.5	94.5					94.5	
≥ 900 ≥ 900	2.6		95.2		96.5	74.5		76.5 96.5	96.8 96.8	94.8			95.5	76.8	96.9	96.6
≥ 700 ≥ 400	7.3 52.6	92.9	95.5	96.8 96.8	97.7	57.7 58.1	98.7	94.0	98.7	98.7	99.7	98.7		98.7	98.7	94.2
≥ 500 ≥ 400	2.4	92.9	93.5	96.8	98.4	94.7	99.4		99,4	99.4	99.7	99.7	99.7	99.7	99.7 39.7	79.7
≥ 300 ≥ 200	2.6	92.4		76.8		78.7	99.4	99.4	99.4	99.4	99.7	99.7 100.0	49.7	99.7		99.7
≥ 100 ≥ 6	2.5		95.5	+ -	98.4		99.4		79.4						100.7	

MAL	MUMBER	OF	OASSEV	ATION	2	- 1	

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### **CEILING VERSUS VISIBILITY**

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# PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING							VIS	IBILITY (ST	ATUTE MIL	ES)						
(FEET)	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 21/2	≥ 2	≥ 1%	≥ 1%	≥ 1	≥ %	≥ 44	≥ %	≥ 5/16	≥ 4	≥ 0
NO CEILING ≥ 20000	47.	48.4 40.5	60.3	65.7	67.7	45.4	48.4	43.4 60.7	49.4 53.7	60.7	48.4 60.7	60.7	6.7	48.4 67.7	67.7	48.4
≥ 18000 ≥ 16000	5).7  -:::3	61.7	67.7	61.3	61.3	61.3	61.3	11.3	61.8	61.3	51.0	61.3	51.7	51.3	61.3	61.3
≥ 14000 ≥ 12000	.1.f	54.5	64.3	64.8	62.3	64.3	62.5	62.3 64.8	62.3	62.3	62.3	62.3	52.3	: :	62.3	64.8
≥ 10000 ≥ 9000	7, <b>4</b>	66.1 56.5	66.5	66.8	66.8	66.5	65.8	66.5 66.8	66.5	56.5	66.5	66.5	66.8	66.5	66.5	66.5
≥ 8000 ≥ 7000	60 • ¥	69.7	69.7	73.5	69.7 70.0	69 . 7 70 . C	69.7 70.0	64.7 70.0	70.0	69.7 70.0	69.7 70.0	69.7 70.0	50.7 70.0	59.7 70.0	70.0	70.5
≥ 6000 ≥ 5000	60.7	70.a	71.6	70.3	71.9	70.3	73.3 71.9	70.3	70.3	70.3	70.3 71.9	78.3 71.9	70.3	70.3 71.9	70.3	70.3
≥ 4500 ≥ 4000	73.6	72.9	75.2	73.6	77.1	73.5	77.1	77.1	77.1	73.6	73.6	73.a 77.1	73.6 77.1	77.1	73.6 77.1	77.1
≥ 3500 ≥ 3000	73.4	79.0	81.6	75.7 Al.9	51.9	79.7	79.7	91.9	77.7 81.9	79.7	31.9	79.7 81.9	70.7	79.7	79.7 31.9	91.9
≥ 2500 ≥ 2000	5 • 2	40.	84.7	86.5	87.0	86.5 89.0	89.0	89.0	86.5	89.4	56.5	89.4	25.5 84.4	96.5 39.4	89.4	89.4
≥ 1800 ≥ 1500	7 . 4	29.7	92.6		95.3	~3.2	93.3	93.2	93.2	90.7	90.7	90.7 93.6	90.7	95.6	93.6	3°.7
≥ 1200 ≥ 1000	4	93.2 93.2	94.2	75.2	95.5	75.2 75.3	95.8	95.2	75.2 95.6	75.5	95.5	96.1	95.5	75.5 46.1	95.5	96.5
≥ 900 ≥ 800	8.4	73.2	95.2		95.8	76.8	96.1	96.1	96,1	97.4	96.5	95.5	76.5 97.4	97.4	96.5	97.4
≥ 700 ≥ 600	8.4	73.6	95.5	37.1	97.7	08.1	97.7	78.4	97.7	98.7	98.7	72.1	98.1		99.1	96.1
≥ 500 ≥ 400	Ĉ	73.7	76.1	97.1	98.1	08 . N	99.0	98.4	99.4	99.7	99.7	98.7	99.7	99.7	96.7	38.7
≥ 300 ≥ 200	38.4	73.7	95.1	97.1	93.1	96.4	99.3	99.4	97.4	99.7	99.7	99.7	99.7	99.7	99.7	99.7
≥ 100 ≥ 0	8.4	93.9 93.9	96.1	97.1	98.1	28.4	99.0	99.7	•	170.7		100.0			100.0	

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STAL MUMBER OF ORSERVATIONS	3.14

### **CEILING VERSUS VISIBILITY**

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# PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

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CEILING							VIS	IBILITY (ST	ATUTE MIL	ES)						
(FEET)	≥ 10	≥ 6	≥ s	≥ 4	≥ 3	≥ 2%	≥ 2	≥ 1%	≥ 1%	≥ 1	≥ ¥	≥ #	≥ %	≥ 5/16	≥ ¼	≥ 0
NO CEILING ≥ 20000	2.6	64.5	54.5	5.2	55.2	5.2 65.5	55.2 65.0	55.2	98.08 2.08	35.2	55.2	55.2 65.8	55.2 65.8	53.2 65.8	55.2	65.5
≥ 18000 ≥ 16000	44.2	65.5	65.8	65.5	66.8	56. à	67.4	54.8 67.4	65.7	66.3	67.4	66.8	67.4	67.4	66.4	66.4
≥ 14000 ≥ 12000	5.5	67.4	67.7	56.4 71.5	67.7	68.7 71.9	68.7 71.9	68.7 71.9	66.7 71.9	64.7	68.7	68.7	1.8 . T	68.7	65.7	68.7
≥ 10000 ≥ 9000	70.0	71.9	72.3	72.9	73.2	73.2 73.6	73.2 73.6	73.2	73.7 73.6	73.2	73.2	73.2 73.5	73.6	73.2 73.5	73.4	73.2
≥ 8000 ≥ 7000	71.5	74.2	74.5	75.2 75.5	75.5	75 . S	75.5 75.8	75.5 75.8	75.5 75.8	75.5 75.8	75.5 75.8	75.5 75.8	75.8	75.5 75.8	75.5 75.E	75.5
≥ 4000 ≥ 5000	74.5	75.5	75.8	75.4	77.1	77.1 79.4	77.1 79.4	77.1	77.1	77.1	77.1	77.1	77.1	77.1 79.4	77.1	77.1
≥ 4900 ≥ 4000	74.3 70.1	79.1 79.7	79.4	79.9 80.7	80.7	00.0 41.0	#0.0 81.6	20.5	80.0 81.6	80.6	50.0 31.6	80.9 81.6	10.0 81.6	20.0	60.0	80.5 51.5
≥ 3500 ≥ 3000	`6.5 72.9	51.0 P2.6	81.3	81.9	\$2.9	62.9	82.9 84.5	A2.9	82.9	82.9	82.9	82.9	92.9 24.5	84.5	87.9 84.5	25.9
≥ 2500 ≥ 2000	5) 10 10 10 10 10 10 10 10 10 10 10 10 10	15.5	84.8 85.8	85.5	37.4 88.4	87.4	87.4	57.4	87.4 28.4	87.4	87.4	37.4 65.4	87.4 28.4	57.4 58.4	97.4 28.4	87.4 88.4
≥ 1800 ≥ 1900		97.1	90.3	89.1	89.5 92.5	59.0	87.0 92.5	42.6	89.0 92.5	89.0 92.6	89.7	92.6	80.0 97.6	89.17 92.5	89.0 97.5	55.0 92.6
≥ 1200 ≥ 1000	3 4 4 5 3 4 6	90.0	91.C	92.3	93.6	93.6	94.2	93.9	93.7	91.9	93.9	93.9	93.9	95.5	94.3	93.9
≥ 900 ≥ 900	5 <b>6 8</b>	90.3	91.9	93.2 94.5	96.1	96.5	94.5	76.8	94.9	94.5	94.8	94.5	96.5	94.6	74.8	96.6
≥ 700 ≥ 600	₹5.2 _>5.3	91.0 71.3	93.6	95.8	97.1	98.1	97.4	97.7	97.7	97.7	98.7	99.7	97.7	97.7	97.7	97.7
≥ 500 ≥ 400	95.2	71.3	93.6	76.1	97.7	58.1 98.4	98.1	29.4	99.4	99.0	99.0	99.4	99.0	99.4	99.0	99.5
≥ 300 ≥ 200	.50	91.1	93.9	94.5	98.4	98.7	98.7 98.7	99.7	99.7	99.7	99.7	99.7	100.1	99.7		99.7
≥ 100 ≥ 0	5 . 2	71.3	93.9	96.5	98.	98.7	98.7	99.7	99.7 99.7	99.7	,		100.0	100.0	100.0	

TOTAL NUMBER OF OBSERVATIONS

315

### **CEILING VERSUS VISIBILITY**

PERCENTAGE FREQUENCY OF OCCURRENCE

(FROM HOURLY OBSERVATIONS)

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PA 2

PA 2

PA 3

ROUTH

ROUTH

PERCENTAGE FREQUENCY OF OCCURRENCE

(FROM HOURLY OBSERVATIONS)

CEILING							VIS	IBILITY (ST	ATUTE MIL	ES)					_	
(FEET)	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 21/2	≥ 2	≥ 1%	≥ 1%	≥ 1	≥ %	≥ %	≥ %	≥ 5/16	≥ 4	≥ 0
NO CEILING	57.4	59.5	50.8	59.7	67.0	50.0	60.0	60.0	60.0	50.0	87.0	67.0	4 . 6	60.5	67.7	4
≥ 20000	63.4	55.8	65.8	66.1	66.5	66.5	46.5	16.5	46 . L	56.5	66.5	66.5	66.5	66.5	66.5	56.5
≥ 18000	4.2	56.5	44 0	67.1	67.1	67.1	67.1	67.4	67.1	67.1	67.3	57.1	67.1	67.1	67.1	67.
≥ 16000	->4 - 5	66.8	65.8		67.4	67.4	62.4	65.4		67.4 58.4	67.4	67.4	67.4		57.4	67.4
≥ 14000 ≥ 12000	57.7	70.0	70.0	70.3	70.7	70.7	70.7	79.7	66.4 70.7	70.7	70.7	70.7	7 7	70.7	79.7	70.7
<del></del>	71.7	73.6	73.4	73.9	74.2	74.2	74.2	4.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.0
≥ 10000 ≥ 9000	71.3	73.9	73.9	74.2	79.5	74.5	74.5	74.5	74.8	74.5	74.5	74.5	74.5	74 . 4	74.5	74.5
≥ 8000	73.2	75.8	75.8	76.1	76.5	76.5	76.5	76.5	76.5	76.5	76.5	76.3	74.5	76.5	76.5	75.7
≥ 7000	74.5	77.4	77.4	77.7	78 . 1	78.1	78.1	78.1	70.1	73.1	72.1	73.1	7# . 1	76.1	73.1	75.1
≥ 4000	74.5	77.7	77.7	70.1	70.4	72.4	78.4	78.4	78.4	76.4	76.4	76.4	79.4	78.4	7A.4	78.4
≥ 5000	77.3	en•d	ខាះ	60.5	81.0	41.0	61.0	61.0	31.7	81.0	81.	81.3	41.0	81.0	21.0	F1 • 1
≥ 4500	77.1	80.7	40.7	81.0	81.6	F1.6	21.6	61.0	81.6	51.5	81.6	31.5	*1.0	:1.6	B I . 6	11.5
≥ 4000	77.1	80.7	8C . 7	82.7		01.6	81.6	21.5	A1.6	81.6	F1.6	81.6	41.6	91.6	41.4	31.6
≥ 3500	74.4	31.9	81.7	82.3	82.9	82.4	82.9	A2.9	95.9	62.9	32.9	82.7	95.9	32.9	62.9	32.9
≥ 3000	: 0 • 0	-4.2	64.2	84.5	85.2	85.2	85.2	55.2	95.2	62.5	45.5	35.2	4.65	85.2	25.2	34.7
≥ 2500	1.3	25.3	65.5	15.8	86 - 5	84.5	86.5	36.5	86.5	86.5	86.3	85.5	85.5	86.5	36.5	36.5
≥ 2000	13.6	27.7	87.7	85.1	88.7	A8.7	89.7	98.7	55.7	83.7	95.7	£8.7	85.7	88.7	28.7	34.7
≥ 1800	3.9	98.1	84.1	38.4	89.7	49.0	89.0	89.3	33.7	5 7 . ()	63.0	87.0	43.6	90.	89.0	40.
≥ 1500	15.8	90.7	90.7	91.3	91.7	71.9	91.7	41.5	¥1.9	91.9	91.9	91.9	71.3	91.9	91.9	¥1.9
≥ 1200	7.1	71.9	91.9	92.6	93.2	23.2	53.2	73.7	93.2	93.2	9 % . 2	93.7	93.2	93.2	43.7	93.2
≥ 1000	17.	93.6	93.9	94.5	95.5	95.5	95.5	75.5	95.5	95.5	95.5	95.5	95.5	95.5	78.5	95.5
≥ 900 ≥ 800	8.1	95.5	95.8			~ -	97.4	77.4	97.4	27.4	97.4	95.5	37.4		97.4	97.6
<del></del>	. e . i	95.5	95.6	96.5		97.4		77.4	97.4	97.	27.4	67.4	97	97.4	97.9	
≥ 700 ≥ 600	38.1	95.5	95.8	94.5	97	97	97.4	97.4	97.4	97.4	97.4	57.4	97.4	97.4	97.	97.3
	18.1	75.5	95.8	96.5	97.4	57.4	97.4		97.7	07.7	97.7	97.7	97.7	97.7	97.7	97.7
≥ 500 ≥ 400	.5.1	95.4	25.0	96.5	97.7	77.7	97.7	98.1	76.1	96.4	98.4	98.4	04.4	98.4	98.4	95.4
≥ 300		75.4	96.1	96.8	98.4	₹8.4	98.4	40.0	99.7	99.7	94.7	99.7	74.7	99.7	99.7	99.7
≥ 200	88.1	45.4	96.1	96.8	98.4	98.4	98.4	99.0	99.5	99.7	99.7	99.7	09.7	39.7	99.7	99.7
≥ 100	28.1	95.4	96.1	96.8	1	98.4	98.4					100.0			100.0	
≥ 0	29.1	05.9	96.1	76.8	90.4	48.4	98.4	99.4	99.4	100.0	100.3	100.0	100°E	700.0	100.0	<u> 100.0</u>

TOTAL NUMBER OF OBSERVATIONS 315

### **CEILING VERSUS VISIBILITY**

# PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING							VIS	HBILITY (ST	ATUTE MIL	E\$)						
(FEET)	≥ 10	≥ 6	≥ s	≥ 4	≥ 3	≥ 2%	≥ 2	≥ 1%	214	2	≥ ¥	≥ %	≥ %	≥ 5/16	≥ ¼	≥ 0
NO CEILING ≥ 20000	47.0	29.1 57.7	50.0	( U . 3	50.4 53.8	50.4 58.7	50.5	50.5 58.7	50.5	53.5 59.8	57.5 5*.8	50.5 58.8	ı	50.4 58.9	57.6	54
≥ 18000 ≥ 14000	55.1	58.2 58.4	50.5	55.9	59.1	59.4	59.2	59.4	59.2	57.2	57.2	54.2 59.5	1	59.5	59.3	50.5
≥ 14000 ≥ 12000		59.0	59.4	57.8	67.7	(3.0 42.1	62.1	60.0 52.1	60.0 62.1	50.1 62.2	60.1 52.2	60.1	57.1	50.1 62.2	50.1 52.2	67.1
≥ 10000 ≥ 9000	1.7	64.7	64.6	65.0	65.2	+5.3	65.3	55.3 55.8	65.3	65.9	65.4	55.4	65,0	65.4 65.9	65.7	61.4 61.4
≥ \$000 ≥ 7000	13.6	66.9	67.3	67.8 62.6	68.0	68 .C	68.1	69.1	64.1	68 • 1 59 • 2	59.2	69.2	64.2	58.2	69.2	6.00
≥ 4000 ≥ 5000		68.6	10.9	69.5	60.7	69.8	67.8	69.8	66.E	59.8 71.6	69.8 71.8	59.8 71.8	71.9	69.7	69.9	60.9 71.9
≥ 4500 ≥ 4000	67.3	71.2	71.8	72.3	72.6	72.6	72.7	72.7	72.7	72.7	77.7	72.7	77.7	72.7	72.7	74.5
≥ 3500 ≥ 3000	1.5	74.7	74.7 76.8	75.1	75.5	75.5	75.6	75.6	75.5	75.6	75.6	75.6	77.8	75 • 7 77 • 8	75.7 77.6	i
≥ 2500 ≥ 2000	75.0	78.8	79.4	#13.D 92.4	37.4 83.2	··O.4	35.4	45.4	33.4 33.4	80.5	80.5 83.5	50.5 63.5	F7.5	50.5	80.5 83.5	93.5
≥ 1800 ≥ 1500	7 . 4	42.7 25.6	87.5	97.3	84.5	4.6	34.7	90.7	84.7	64.\$ 88.3	24.8	84.6	54.6	84.8 88.4	54.5 55.4	F4.3
≥ 1200 ≥ 1000	41.1	47.9	87.1	* 0.0	97.6	20.7	90.7	93.3	92.9		93.0	71.1 93.0	97.0	91.1	91.1 93.5	
≥ 900 ≥ 800	31.9	49.9	91.2	93.8	93.	3.2	95.2	35.4	95.3	93.6	97.6	93.6	95.4	93.6 95.4	97.6	
≥ 700 ≥ 600	:2.9 32.9	91.2	91.2	95.2	95.7	96.7	94.3	96.4 97.2	96.4	96.5	96.5 97.5	96.5	96.5	96.5	47.4	97.4
≥ 580 ≥ 400	3.0	91.7	94.1	95.6	96.9	77.8	90.2	98.4	91.7	97.9 96.7	97.9	97.9 98.8	\$7.9 94.8	97.9 98.8	97.9 98.9	97.9
≥ 300 ≥ 200	3.0	91.6	94.2	75.9	97.6 97.7	98.0	99.6	9.0	98.8	99.2	99.3	99.3	99.7	49.3 79.7	99.3	97.7
≥ 100 ≥ 0	3.7	01.9	94.2	36.0	97.7	78.1	98.8	29.1	79.7	99.6	99.9	99.9	,	100.0	100.0 100.0	1

OTAL	MUMBER (	D#	OBSERVATIONS		24

### **CEILING VERSUS VISIBILITY**

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING	VISIBILITY (STATUTE MILES)           ≥ 10         ≥ 6         ≥ 5         ≥ 4         ≥ 3         ≥ 2½         ≥ 1½         ≥ 1½         ≥ 1         ≥ ½         ≥ ½         ≥ ½         ≥ 1½         ≥ 1½         ≥ ½															
(FEET)	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3		≥ 2	≥ 11/2	≥ 1%	≥ 1	≥ %	≥ %	≥ %	≥ 5/16	≥ 1/4	≥ 0
NO CEILING	55.03	58.	2.00	59.0	230		9.0	* 9 . J	39.0	57.0	59.0	28.0	20.0	54.1	23.	. s
≥ 20000	~ 3 . Y	u5 • 3	65.3	66.3	66.3	4.6 . 3	65.3	66.3	55.5	60.5	35.5	66.3	64.3	60.3	06.3	45.03
≥ 18000 ≥ 16000	3.7	55.3	65.3	66.3	56.3	66.3	66.3	66.3	65.3	56.3	66.3 56.8	65.3	66.3 55.3	66.3	66.3	
≥ 14000 ≥ 12000	4.1	6.0	67.0	67.0	67.3	67.0	67.0	67.3	57.00	67.5	67.3 56.	67.7	67.0	67.5	63.0	6
	37.3	59.3	67.3	73.3	70.3	70.3	70.3	7 3	7 3	77.3	77.3	77.3				30.0
≥ 10000 ≥ 9000	27.7	. 9 . 3	60.3		70.3	70.3	70.3	70.3	70.3	73.3	70.3	7 . 3	70.3	70.3	70.3	-
≥ 8000		73.	7 . 3	74.3	74.5	74 . 3	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3	7 4 . 7
≥ 7000	1107	74.0	74.0	75. 7	75.7	75.7	75.0	75.0	75.0	75.5	75.0	75.0	75.0	75.7	75.	75.
≥ 4000 ≥ 5000	3	77.3	77.3	76.7	75.3	76.7	76.7	75.7	76.7	76.7	75.7	76.7	76.7	76.7	75.7	76.7
≥ 4500 ≥ 4000	77.0	78.	77.0	77.1	70.3	79.3	79.0 90.3	79.3	79.7	79.3	19.3	19.0	70.0 80.3	79.3	70.7 JC.3	78 10
≥ 3500	7 . 3	21.7	81.	82.7	32.7	42.7	87.7	52.7	62.7	\$2.7	52.7	32.7	82.7	62.7	82.7	13.3
≥ 3000	i • 7	34 . 7	34.7	95.7	45.7	35.7	85.7	*5.7	35.7	35.7	85.7	25.7	F 7	85.7	85.7	33.7
≥ 2500 ≥ 2000	4 . 7	13.3	87.3	98.3	95.5	38.3	99.3	79.3	89.3	89.3	58 . T	87.3	94.3	66.3	88.3 89.7	83.5 87.5
≥ 1800 ≥ 1500	3.1	संघ <b>्र</b> हु-•्र	89.7	90.0	93.3	10.0	90.3	70.0	93.0	92.5	20.0	97.7	21.7	90.1	90.0 71.7	71.7
≥ 1200 ≥ 1000	3.1	92.8	91.3	93.7	97.3	92.3	92.3	77.3	92.3	92.7	92.7	92.7	24.7	72.7	97.7	3 7 7
≥ 900	- 5.0	33.3	34.3	74.3	74.7	74.7	95.0	75.0	उठ्•ेत	95.3	90.3	95.3	G	62.3	^5.5	7E.3
≥ 800	N • ]	73.7	73.7	25.0	95.7	√5.7	96.0	95.0	36.1	76.3	96.3	76.3	96.3		76.	94.3
≥ 700 ≥ 600	8.7	O4 . 7	95.0	96.3	97.0	97.0	97.3	07.5	97.3	97.7	97.7	97.7	97.7		97.7	97.7
≥ 500	500	65.7	93.	95.0	78.7	14.7	79.7	99.0	90.0	99.3	99.3	99.3	99.3		99.1	79.3
	Ny - 1	76.0	96.7	98.3	99.7	28.7 29.0	99.3	79.5	99.0	79.7	99.7	99.3	99.7		50.7	
≥ 300 ≥ 300	39.	30.0	95.7	98.3	39.	^9 • D		79.3	¢ 2 , ₹	99.7	\$9.7	79.7	79.7	29.7	99.7	99.7
≥ 100 ≥ 0	89.0 89.0	96.0 96.0	96.7	98.3	99.7	ે <b>9.</b> વ	99.3	39.3	99.3	99.7	99.7	99.7	99.7		99.7 100.0	-

TAL NUMBER OF OBSERVATIONS

#### **CEILING VERSUS VISIBILITY**

STATION STATION ARMS TEATION ARMS VEATE

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

VISIBILITY (STATUTE MILES) CEILING ≥ 6 ≥ 4 ≥ 2 ≥ 5/16 NO CEILING 37.7 32.7 52. 52.7 52.7 52.7 52.7 72.7 5.2 ≥ 20000 47.0 57. 57. 50.7 57.3 56.5 57.0 7.0 57.1 57." 3. 55.7 7. 57. 51. 57. 57. ≥ 14000 ≥ 12000 16.0 57.3 58. :0.3 9.7 60.0 50.0 60.3 :0.3 60.3 8 . . . 62.3 ≥ 10000 ≥ 9000 50.7 64.3 64. 64.0 ≥ 8000 ≥ 7000 67.3 57.7 67.3 49.7 59.3 71.7 72. 72.0 72.2 72.0 72.0 72.3 71.3 72. 72.3 72.3 72.3 72.3 72. 72.3 72.3 ≥ 4500 ≥ 4000 73.7 73.. 73.0 72.0 72.7 73.3 74.5 \*3.0 73.7 74 . 74. 74.0 74.0 74. 74.7 74.1 73.7 74 . ≥ 3500 ≥ 3000 70.3 77.3 74 . 3 7E . 3 77.5 76.3 75.0 78.3 78.3 78.3 7 . 3 30.0 30.0 eg.3 70.3 40.3 80.3 3 30 5 5 .. . 3 2500 2000 '7. 34.3 85.0 35.0 85.3 45. 5 45.3 78. 86.7 76.0 85.3 39.7 39.7 90.0 86.3 86.3 86.3 99.3 90.3 90.3 92.3 92.3 92.3 86.3 ≥ 1800 ≥ 1500 47.7 ay. · 5 . 5 10.3 30.3 21.07 92.3 91. 01.1 71.7 92.0 93.3 43.3 92.3 1200 1000 71.7 .74. 92.3 ¢ 3. ] 93.7 43.7 70. 97.3 93.3 53.7 94. ુધ • 3 4. 21. 93.0 93. 94. 94.7 95.3 :5. 95.3 95.7 46.0 76. 76.0 76.0 36. 76. 26.3 36.7 ~7. 77.3 76.0 P2.0 58.0 96.3 90.7 97. 97.7 98.3 90.0 95. 94. 98.5 97. 98.0 58.3 38. 500 400 ≥ ≥ 98.7 96.7 94.7 98.7 98.7 97. 13.1 98.3 49.7 79.7 25. 79.3 97. 94. 49. 67.3 C8 . C 98.7 99.0 49.3 49.3 30.0 19.0 97.3 20.3 77.3 98.3 V2.3 99. 79.3 77.3 79.3 99.3 99.3 99. <u> চিন্দু -</u> 18.3 79.3 100 94.7 97.0 97.3 94.3 48.3 99.0 9.3 45.3 99.3 99.3 24.3

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TOTAL NUMBER OF	OBSERVATIONS	i •	

### **CEILING VERSUS VISIBILITY**

#### PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

4 ≥3 ≥2%	EILING	A121	BILITY (STA	TUTE MILE	(S)						
7 6 7 7	(FEET) ≥ 10	≥ 2	≥ 11/3	≥ 1%	≥ 1	≥ %	≥ %	≥ %	≥ 5/16	≥ %	≥ 0
43.7 43.7 45.3	CEILING 20000	49.3		40.7	45.7	44.7	45.7	4 7	4 7 . 1	45.07	4 7 a 1
. T 48 . 7 49 . T	18000	40.3	19.3	47.4	47.3	4:.3	4 %	40.3	44.3	44.4	
3.5 49.3 49.3	14000	5		57.0	24.7	50.7	44.7 - 01.	4 6 7	£ 0 0	57.3	1
2.1 45.7 -D.C	12000	57.3	65.3	55.0	3: •3	5.03 55.0	55.7	- ` • * 	5 2 6 3	51.7	· ·
7 54.7 54.7	9000	សក្• ក្រុ	٠	33.	5.5	5 5	T. T.			5.5	
3 5° . 3 9 . 1 3 6 7 . 1 7 0 1	8000 7000	59.7	61.0	59.7	59.7	57.7	57.7	50.7	59.7	51.3	*1.3
.7 62.7 -2.1	6000 5000	63.0	67.3	53.2	A3.3	62.3	03.3	2	47.7	4.3.7	£ 7.7
1.3 55. 1 15.3	4500	66.7	67.0	57.7	57.3	67. ?	37.3	c *	57.7	47.7 67.7	67.7
67.3 67.3	3500	500 B		55.7	57.	60.7	69.	* * * 7	65.7	65.3	2
3.0 73.0 70.3 3.3 71.3 72.0	2500	7:07	71.0	71.0	71.2	71.3	71.5	71.7	71.3	71.7	71.7
1.0 76.0 76.7	2000	77.3	77.7	77.7	7:00	74 . "	710:	70.0	75	70.3	7
9.3 7t.3 77.5	1500	77.7	79.0	62.7	72.3 83.0	7" • 3i	87.3 83.3	6.7 <b>.</b> 3	76.3	43.3	6 3 . 3
7.0 89.7 85.7 7.0 87.1 944.	1200	36.3	36.7	21.	97.7	*1.0	11.3	37.0	1.3	01.7	1.
3.3 9 .7 61. .7 91.7 72.	900	92.0	43.0	97.5	93.7	92.7	12.7	. 7	92.7	94.	13.7 24.
9.7 97.3 73.3	700	97.7	24.2	74.3	94.7	54.7	34.7	74.7	94.7	35.	दह• *:x•*
20. 20.7 25.3	500	95.0	5.3	75.7	97.0	97.0	97.1	, , , ^	47.1	\$7.5	01.
1.1 95.7 56.3	300	97.3	07.7	38.0	72.3	99.3	93.3	30.3	98.3	08.7	
0.3 05.7 6.3		97.3	77.9	SALT	22.3	20.4	99.3	49.8	49.3	99.7	
7 : 7 : 7 :	500 53 57 400 53 77 300 57 77 200 57 77	92.7 95.3 48.0 93.7 95.7 96.3 93.3 95.7 96.3	72.07 98.7 98.8 98.07 72.7 95.3 98.07 76.7 95.4 98.07 76.3 97.3 97.3 97.3 97.3 97.3 97.3 97.3	72.0	72	72.07 98.7 45.3 94.0 15.3 46.7 97.0 72.7 95.3 46.7 26.7 47.0 97.3 97.7 77.7 95.7 46.3 97.3 97.7 98.0 99.0 74.1 95.7 46.3 97.3 97.7 98.0 99.0 75.3 95.7 46.3 97.3 97.7 98.0 99.0	72.6	72.61	72.6 24.7 45.3 46.3 46.3 46.7 97.2 97.4 97.3 97.6 97.6 97.6 97.6 97.6 97.6 97.6 97.6	72.61	72.6

PHOTAL MILMARS OF CARRESTATIONS	3 31

7 47 1 5 g

### **CEILING VERSUS VISIBILITY**

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING	VISIBILITY (STATUTE MILES)															
(FEET)	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 21/2	≥ 2	≥ 1%	≥ 1%	≥ 1	≥ %	≥ %	≥ %	≥ 5/16	≥ ′•	≥ 0
NO CEILING	42.6	45.	4 .	47.	45.0		47.0	45.0		40.00	4	41.		4.	-	41
≥ 20000	· •	3.3	57.3	52.3		72.5	50.3	2.3		12.3			• 3	<u>``•</u>	32.3	
≥ 18000 ≥ 18000	•	3	32.3	- 2 - 3	52.3	2.3	52.3 52.3	2.3	53.7 55.8	52.3 52.3	7.7.5	7.3	-		30.3	
≥ 14000	43.7		>2.3	52.07	52.3	3.3	57.7	2.3	52.5	53.1	53.3	3.3		2.1	3.3	• •
≥ 12000	- 5	2.7	57.7	7.7		55.7	50.7 56.7	55.7	52.7	52.7	34.7		7		E 2 9	
≥ 10000 ≥ 9000	2.7	47.3	50.7 57.3	50.7 57.3			57.3	47. X	57.7	53.7	51.2	57.3	7.3	57.7	57.3	16.7
≥ 8000 ≥ 7000	7	1.7	51.0 61.0	#1.0	61.0	61.0	51.0 61.0	1.0 1.0	61.0	61.	61.	£ 3 •	• : •	il.	51.	11.
		3	3 3 6	5.5	3300	73.3	53.3	7.3	57.9	23.3		11.			1 1 4 A	1 2 E
≥ 6000 ≥ 5000	7	1	5° • \$			65. T	65.7	5.7	45.7	65.7	35.7	55.7		65.7	7	45.7
≥ 4500 ≥ 4000			67.	64.3	65.7		66.7 67.3	64.3	65.7	65.7	67.3	69.7	6.3	56.7 57.7	55.7	7.0
<del></del>		10.7	57.0		6 7 6 3	4.7	69.3	50.3	£0.8	60.3		1	37.8	69.	60.7	5.02
≥ 3500 ≥ 3000			1	- 1		5.	75.	71.	7	75.03	75.0	7	7:	5.	75	7)
≥ 2500		31.3	41.07	21.7	52.0	72.0	7 P	77.65	32.0	8.30	7.		7.	· 2	35.5	•
≥ 2000	•	13.0	64.7	95.7	₩5.+3	6. 3	80.3	46.3	80.3	35.3	65.0	4. 3	• :	60.0	16.3	
≥ 1800 ≥ 1500	77.7	30.7	37.3	67.3	91.3	2.	78.0 51.3	1.3	1 3 6 3 7 1 6 3	1.5	1.7	34.0;   31.3°	7 • T	, G •	98. 91.	1
≥ 1200	3.4	57.0	37.5	93.3	94.7	4.7	÷4.	94.7	7 % •	44.7	7	34.7	7	S.E. 9	114 7	-1.5
≥ 1000		97.0	34.3	<b>*5.</b>	76.7	6.7	76.7		·· O • 7	+ to . 7	CF. 7	71	7	26 . 7		-
≥ 900 ≥ 800		2.7	97	35.3 66.3	9		97.	0 <b>7.</b> ″ 30.″	74	97.	97.	97.		77.	an .	
≥ 700		3.3	97.7	≎6.3	73.4	.8.3	CH. T	38.43	36.3	9 € . 7	28.7	28.7	7	40.7	78.7	
≥ 600		13.7	25.0	t . 7	99.0	3.7	60.0	.7.	47.	زوفا	70.3	50.3	79.3		30.	75 kg 🔒
≥ 500 ≥ 400	•	73.7	96.0 96.7	5.7	99.7	8.7	99.3	19.3	39.2	173.0 176.0	100.0 100.0	173.7			130.7 130.7	
≥ 300	•	5.7	950	76.7	90.7	F3.7	99.0	23.3	17.		167.0	17 .0	17-17	1:0	110.0	
≥ 200	•	93.7	34.5	96.7			99.	79.3	49.	72000		100.0		100.0		100 • C
≥ 100 ≥ 0		73.7 73.7	95.	(5.7	94.7	1	99.J	09.3	99.3			195.0 195.0		100.0∤ 100.0∤	145.0 145.0	

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DIRNAVOCEANMET

#### **CEILING VERSUS VISIBILITY**

STATION STATION NAME VEAUS VEAUS MONTH

### PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

VISIBILITY (STATUTE MILES) CEILING (FEET) ≥ 4 ≥ 6 ≥ 5 ≥ 2% ≥ 1% ≥ % ≥ % ≥ 5/16 ≥ 0 4 Y. NO CEILING 43.3 4 ? 4 7 45. 43.3 43.3 43.3 43.3 43.3 ≥ 20000 47. 49 . 49. 2.2 44.6 47.3 49.2 ≥ 18000 ≥ 16000 43. 4 . . 7 40.3 49.3 44.3 47,7 49.3 47.3 49.1 49.3 49.5 49.3 47.5 44.3 49.3 40.3 49. 47.7 48. 49.7 43.7 49.7 ≥ 14000 ≥ 12000 49.7 56.3 56.3 56.3 56.3 56.5 \$ 10000 ≥ 9000 54. 59.7 59.7 8000 7000 (). 60.7 -0.7 67.7 63.7 4 61. 61.3 51.3 61.3 61. 61. ≥ 6000 5000 63.3 64. 43 . \$ ? . 7 64.3 64.3 /4.3 54.3 64.3 :4.3 65. 7 65. 4 45. 3 65. 7 65. 7 65. 7 64. 64. 65.7 66. 65.0 63.3 4500 4000 16.7 60.7 16.7 00.7 66.7 66.7 56.7 56.7 66.7 66.3 67.0 63. 67.0 ≥ 3500 3000 65.7 67.7 717.7 71.3 71.7 71.7 71.7 71.7 71.7 71.7 71.7 71.7 71.7 71.7 ≥ ≥ 2500 2000 70.7 77.7 75.0 75.0 75.0 75.0 75.0 75.0 75.0 75.0 74.0 74.7 77.3 75. 75.3 1800 1500 20.3 25.7 Book 83.3 3 ... 97.7 70.7 90.7 97.7 83. 44.3 7 . 3 1200 ^ Z • ē4. 91.4 92.0 97.3 92.3 92.3 97.5 97.3 49. 9.5 47. 83.0 92.7 93.3 73. 2 99.3 7 . 3 ≥ 75.7 94.7 99.3 95.7 95.0 25.14 75. 7 75.0 95.0 95.0 45.0 25.2 46.3 95. 45.7 95.7 95.7 91.0 54.3 26.0 **^6.3** 96.3 36.3 96.3 96.3 96.3 96.3 96.3 96.3 96.5 46.3 91.0 ₹ . 3 97.3 86.5 76. ₹7.5 500 400 94.3 97.5 97.3 97.7 98.0 98.0 98.0 98.0 98.0 96.0 98.0 36.3 91.0 77.3 99.3 99.3 99.7 49.7 79.7 91.5 64.7 97. 98.7 19.0 99.0 09. 1 20.1 99.3 97.3 94.7 \$7.7 99.7 91.3 98.7 59.3 79.3 79.7 00.7 09.7 100 34.7 97.3 97.7 98.7 29.7 99.71 0.3100.0100.010 .0130.0130.0100 86.7 91.3

		PATIONS		

### **CEILING VERSUS VISIBILITY**

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING							VIS	SIBILITY (SI	ATUTE MIL	£\$)		-				
(FEET)	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 21/4	≥ 2	≥ 1%	≥ 1%	<b>≥</b> 1	≥ ¥	≥ %	≥ 16	≥ 5/16	≥ ¼	≥ 0
NO CEILING ≥ 20000	4	40.0	85.7 85.7	%6.U 55.U	-	45.7	46.3	46.3	46.T	49.3	46.3	46.3 55.3	44.3	46.3	46 . 3 55 . 3	55.0
≥ 16000 ≥ 16000	4	\$ <b>5.</b> 0	55.0 55.0	55.0 54.0	33.3	15.3	55.3	15.3	45.7 55.8	55 a 3	55.8	55.3	55.4 55.3	55.3 55.3	55.3	55.3
≥ 14000 ≥ 12000	6 . r	55.0 97.0	55.5 57.0	95.7 57.0	55.3 57.3	55.3 57.3	55.3	*5.3	55.3	55.3 57.3	55.3 57.3	55.3 57.3	57.3	55.3	55.3	58.3 57.8
≥ 10000 ≥• 9000	50.0 •53.0	19.7	57.7	59.7	60.0 60.0		60.0	1	50.0 60.0	^0.0 •60•0	60.0 0.00	50.0 60.0		60.7 49.0	63.5	5
≥ 8000 ≥ 7000	2.7	3.7 (4.5	67.0	64.3	64.7	13.3	63.3		64.7	64.7	55.3	63.5	64.7	53.3 64.7	64.7	64.7
≥ 6000 ≥ 5000	37 	15.7	65.7	69.3	66.3	-6.D	69.7	66.0	55.7	55.0 55.7	69.7	66.S	64.7 64.7	56.7	69.7	69.7
≥ 4500 ≥ 4000	€8•7	70.7	70.7	71.0	71.3	71.3	71.3	71.3	71.7	71.5	71.3	71.3	71.5	71.3	71.7	71.1
≥ 3500 ≥ 3000	37.7	30.7 -5.3	85.3	51.0 65.7	81.3	36.0	31.3	11.3	*1. *	51.3 56.0	51.3	81.3	51.3 86.5	51.3 56.0	11.7 26.7	5 1 • 3 5 4 • .
≥ 2500 ≥ 2000	7	37.7	38.0 40.7	24.3		58.7	91.3	99.7	89.7	38.7	*8.7	68.7 71.5	89.7	#6.7 91.3	88.7	A ?
≥ 1800 ≥ 1500	3.3	°;•?	91.7	97.3	92.3	52.3	92.3	72.3	92.3	92.5	92.3	92.3 95.3	?".3	97.3	90.3 95.3	7
≥ 1200 ≥ 1000	5.7 -6.4	95.1	95.3		96.3	97.3	96.5	74.3	97.5	96.3	96.7	96.3 77.3	96.3	95.3 97.2	96.3	97.
≥ 900 ≥ 800	5.3	95.3	96.7	97.0	97.7		97.7	27.7 27.7	97.7	97.7	97.7	97.7	97.7	97.7	77.7 97.7	
≥ 700 ≥ 600	6.3	95.1 96.0	97.5	91.3	98.7	98.7	98.7	79.7	98.7	98.7	78.7	95.7	_	99.5	98.7 99.	99.
≥ 500 ≥ 400	- 5 · 5	96.0	97.3	97.7	99.0	19.3 19.7	99.0		79.3 79.7	99.7	99.0	99.7	95.7	39.1 99.7	99.	79.
≥ 300 ≥ 200	6.3	9 6 0 1	97.3	97.7	99.1	130.0 170.0	100.0				100.0					172.5 198.0
≥ 100 ≥ 0	6.3	06.	97.3	97.7 97.7	99.	1 0.0			100.0 100.0		100.0 100.0	-		100.0 100.0		

		•	n
TOTAL NUMBER OF	OBSERVATIONS		U

DIRNAVOCEANMET

### **CEILING VERSUS VISIBILITY**

#### PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING							VIS	HBILITY (ST	ATUTE MIL	.ES)						
(PEET)	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 21%	≥ 2	≥ 1%	≥ 1%	≥ 1	≥ %	≥ %	≥ %	≥ 5/16	≥ ¼	≥ 0
NO CEILING	·3•	53.3	53.63	53.3	53.3	£3.3	2347	53.7	53.7	54.0	58.0	54.7	€ 4 • C	24.0	54.	54,
≥ 20000	50.7	51.	<b>41.</b> €	51.3	61.	1.3	61.7	61.7	61.7	64.0		57.C	5.7.7	620	67.7	62.
≥ 18000	. 7	\$1.6	61.7	51.3	61.3	61.3	51.7	61.7	61.7	62.0	67.0	67.0		62.0	62.0	32.
≥ 16000	54.7	61.7	01.	61.3	61.3	*1.3	61.7	41.7	61.7	62.0		52.0	67.0	62.5	42.0	67.0
≥ 14000 ≥ 12000	70 . 3	61.7	61.7	62.5	63.7	63.7	64.0	62.3	64.0	64.3	52.7	64.3	62.7	62 • 7 64 • 3	62.7	62.7
	5.0	47.1	67.C	67.3	67.3	67.3	67.7	67.7	67.7	66.	63.0	20.3	63.0	53.7		68.0
≥ 10000 ≥ 9000	4.5	67.0		67.3		. 57 . 3		47.7	875	4 9	60.5	60.0	<b>4.99</b> 0	EA.i.		. 6-
≥ 8000	37.7	70.0	70.3	70.7	73.7	70.7	71.0	71.0	71.7	71.3	71.5	71.3	71.3	71.3	71.3	71.3
≥ 7000	1 3 . 3	71.7	77.5	72.7	72.7	72.7	73.0	73.0	73.5	73.3	73.3	73.3	73.3	73.3	73.3	75.3
≥ 6000	1.5.1	72.3	7:07	73.3	71.7	73.3	73.7	73.7	73.7	74.0	74.0	74.3	74.5	74.0	74.3	74.0
≥ 5000	*3.7	76.3	77.0	77.7	77.7	77.7	78.4	28.0	73.12	7 3	74.3	78.3	79.3	75.3	78.3	79.3
≥ 4500	74.7	76.7	79.3	8 . 3	40.0	°0.3	80.7	30.7	80,7	81.0	31.7	° 1 • 7	23.0	31.5	1	₹ T • ∴
≥ 4000	76.7	21.7	82.3	83.0	83.7	33.3	83.7	43.7	83.7	34.5	84.0	84.0	44.0	*4.0	84.0	H# .:
≥ 3500	74.67	3.3	84.C	1 1	84.7	85.0	85.3	25.3	45.3	*5.7	85.7	85.7	35.7	35.7	85.7	35.7
≥ 3000	3.0	55.7	86.3	57.0	87.0		67.7	97.7	87.7	86.	68 . '	RA.S	89.0	58.0	86.	58.
≥ 2500	1 4 7	34.9	89.3	•0.0				90.7	20.07	71.	91.0	91.0	7	91.	21.	71.5
≥ 2000	3 . 7	70.7	92.0	72.7	97.7	93.0	93.3	73.3	97.3	93.7	5 7 7	73.7	3.7	95.7	93.7	93.7
≥ 1800 ≥ 1500	3.7	45.47	92.0	92.7	92.7	73.0	93.3	93.3	93.7	¢3.7	33.7	53.7	93.7 94.7	93.7	93.7	23.7
≥ 1500	. 4 . 3	21.7	93.0	73.7	94.3	54.7	95.0	,5.3	95.3	75.7	95.7	95.7		75.7 96.7	95.7	95.
≥ 1200 ≥ 1000	, L • 3	51.7	93.3	95.7	95.3	73.7	96.0	76.3	76.5 97.7	96.7	96.7	98.7	76.7	28.0	18.5	98.0
	14.7	72.7	94.7	96.3	97.	77.3		78.0	24.0	98.0	98.3	96.3	35.	99.3	19.3	98.3
≥ 900 ≥ 800	. 4	2.7	94.7	\$6.0	- 1		94.3	78.7	98.7	99	99.C	99.7	59 n	99	99.0	
~ <del></del>	4.7	¥2.	34.7	76.0	77.3	3	98.3	28.7	93.	99.	99	99.7	43.0	99.7	99.0	79.
≥ 700 ≥ 400	4 - 7	92.1	94.7	96.0		26.7	98.3	28.7	94.7	99.0	99.7	99.	90.5	99.3	99.0	99.
≥ 500	34.7	73.	95.3	96.7	90.3	98.7	99.0	99.3	99.	99.7	99.7	99.7	90.7	99.7	99.7	99.7
≥ 400	- 2 . 7	53.7	95.3	96.7	98.0	98.7	99.0	29.3	29.3	94.7	99.7	99.7	99.7	99.7	99.7	99.7
≥ 300	24.7	V3.	95.3	76.7	98.7	79.0	99.3	99.7	99.7	100.0	100.0	100.0	105.0	100.0	100.0	100.0
≥ 200	. 4. 7	93.	95.3	96.7	98,0	59.3	99.3	99.7	99.7	100.0	100.0	100.0	100.0	100.0	100.0	107.0
≥ 100	n4.7	93.	95.1	45.7	98.7	09.5	99.3	99.7		300.0			- · · <del>-</del> -			
2 0	34.7	03.0	95.3	96.7	98.7	99 . []	99.3	59.7	99.7	120.0	100.0	100.0	100.0	103.0	100.0	100.0

300 TOTAL NUMBER OF OBSERVATIONS

DIRNAVOCEANMET SMOS

300

### **CEILING VERSUS VISIBILITY**

41

#### PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING							VIS	IBILITY (ST	ATUTE MIL	ES)						
(PEET)	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 21/2	≥ 2	≥ 1%	≥ 1%	≥ 1	≥ ¥	≥ %	≥ %	≥ 5/16	≥ ¼	≥ 0
NO CEILING ≥ 20000	0100	12.7 59.7	69.7	62.7	· · ·	69.7	43.0 79.0	63.0 70.0	0.03 0.05			63.0 70.0			43.0 70.0	43.1
≥ 18000 ≥ 16000	67.7	69.7 70.0	69.7	69.7 70.5	69.7 70.0	10.0	70.0	70.0	70.7	70.0	70.0	70.3	77.0	70.0	70.3	70.0
≥ 14000 ≥ 12000		70.7	70.7	76.7	70.7	70.7	71.0	71.0		71.0		71.5	71.0	71.3	71.0	71.7
≥ 10000	7.	74.3		74.3	74.3	74.3	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7
≥ 8000 ≥ 7000	70.0	77.3	77.3	77.3		77.3	77.7	79.7		77.7	77.7	77.7		77.7		77.7
≥ 6000 ≥ 5000	76.7	79.0		79.0	70.	79.0	79.3	79.3	70.3	79.3	79.3	74.3	79.3		79.3	
≥ 4500 ≥ 4000	1.3	54.0	35.3	84.G	34.0	64.7	84.3	34.3	84.3	34.3	64.3	84.3	54.3 54.0	84.3	84.3	
≥ 3500 ≥ 3000	14.	37.5	86.7	36.3	36.3	85. 1	36.7	86.7	85.7	86.7		96.7	85.7 55.3		86.7	
≥ 2500 ≥ 2000	5.7	37.7	67.	89.3	69.3	89.3	89.7	89.7 90.3	89.7	39.7 90.3	89.7	89.7	89.7		<u> </u>	89.7
≥ 1800 ≥ 1500	5.3	89.3	9 .D		97.3	92.7	93.7	90.7	77.7	93.0		93.0	20.7	93.0	90.7	70.7 93.0
≥ 1200 ≥ 1000	3.7	92.0	93.0	92.3	93.7	23.7 25.3		94.0	94.0	94.3	99.7	94.3	94.0	95.7	74.7	94.
≥ 900 ≥ 800	89	93.3	95.0	95.3	95.7	45.7	96.0	26.0 27.3	96.0			95.3		96 . 1		96.5
≥ 700 ≥ 600	30.7	94.7	95.7	96.0	97.	97.3		77.7	97.7	97.7	97.7	97.7		97.7	97.7	97.7
≥ 500 ≥ 400	80.7 85.1	94.3	96.3	56.7 97.7	75.0	78.0	98.3	98.3	98.7	98.3	98.7	98.3	98.3 100.0	98.3		98.3
≥ 300 ≥ 200	89.7	14.1	97.0	97.7	94.	79.3	130.0	-	100.0	100.0		100.0		100.0	100.0	105.3
≥ 100 ≥ 0	3 7	C 4 . 3	97.0	97.7	99.	49.5	100.0		100.0	176.0	100.0	100.0	រុកភូ.ភូ	100.0	100.7	100.0

TOTAL NUMBER OF OBSERVATIONS\_

DIRNAVOCEANMET

### **CEILING VERSUS VISIBILITY**

# PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

ALL -

(FEET) NO CEILING ≥ 20000	≥ 10	≥ 6	≥ 5	≥ 4			VISIBILITY (STATUTE MILES)														
≥ 20000	7.0			£ 4	≥ 3	≥ 2%	≥ 2	≥ 1%	≥ 1%	≥ 1	≥ %	≥ %	≥ %	≥ 5/16	2 %	≥ 0					
	- 1	G • 3	56	50.8	51.0	1.0	51.1	41.1	21.1	51.1	51.1	- 1.1	31.1	*1.1	51.7	51.2					
		56.5	57.0	:7.3		57.5		57.6	57.6	57.7	57.7	57.7	57.7	57.7	57.7	57.7					
	12.3	56.4		57.3		57.5		57.7	57.7	57.7	57.7	57.7	5 7 7	57.7	57.8	57.8					
≥ 16000	3.	56.7	57.1	57.4	57.5	•7.4			57.2	57.8	57.8	57.8	57.8	5.7.4	57.8	57.8					
≥ 14000 ≥ 12000	4.3 35.1	37 57. 9	57.4	57.7	57.9	58.1	54.9	56.1	58.1 58.9	50.1	55 • 1 54 • 0	53.1 59.0	50.1	58-1	58.2	10.2					
<del></del>				- 3 - 3	35.7						62.7	3207	67.7	62.7	52.7						
≥ 10000 ≥ 2000		61.5	62.0	62.3	62.5	42.5 52.6	62.5	52.5	62.8	52.7	62.5	52.8	(7.8	62.8	67.6	62.7					
+	1.1	45.0	67.5	65.9	66.2	46.3	•	6.4	65.6	65.4	76.9	.36:4		58.0	56.5	66.6					
≥ 8000 ≥ 7000		5.3	66.3	67.2	67.5	67.5		67.7	67.7	67.6	67.8	67.8	€ 7.6	67.3	67.8	67.4					
	3.4	47.6	63.9	3.	54.9	69.0	69.1	.4.2	62.2	60.2	69.2	67.2	69.2	69.2	69.3	6 3					
≥ 6000 ≥ 5000		7	71.3	71.7	7	72.1	72.7	72.3	72.3	72.3	72.3	7.3	77.3	72.3	72.4	77.4					
≥ 4500	1.6.7	71.4	72.3	72.7	73.1	73.1	73.1	73.3	73.7	73.4	73.4	73.4	73.4	73.4	73.4	73.4					
	6. 10	73.5	74.1	74 . 8	75.1	75.3	75.4	75.4	75.4	75.5	75.5	75.5	77.5	75.5	75.5	75.5					
≥ 3500	60.9	75.00	75.5	76.3	74.6	76.3	76.7	76.9	76.7	77.1	77.	77.0	77.7	77.0	77.0	77.7					
≥ 3000		77.9	76.7	79.5	79.7	79.6	50.5	30.0	90.0	30.1	40.1	97.1	.a^.l	*C.1	30.1	8 . 1					
≥ 2500	75.4	*10.4	61.7	62.3	4:.6	P2.5	63.)	83.Q	83.7	83.1	. 3 . 1	53.1	* X . I	93.1	33.2	0.7					
≥ 2000	10.03	43.4	84.7	65.3	85.7	55.8	94.0	86.1	35.1	26.2	55.2	36.2	36.2	96.2	36.2	*6.2					
≥ 1800	16.0	80.	5 5 . 6	16.2	36.6	56.8	n.T.n		47.1	97.1	97.1	27.1	57.1	97.1	e7.1	£7.1					
≥ 1500	75.4	57.5	95.9	90.6		00.4	90.6	90.8	6 (1 ° 4	90.9	90.9	6:03	y . 9	97.9	5 . 8	ું 9					
≥ 1200	70.4	69.	37.7	51.5	97.4	92.6	97.8	92.0	92.0	93.0	43.0	32.0	7.0	93.L	23.1	3 - 1					
≥ 1000		<i>□</i> C • 4	92.3	33.3	94.	4.5	94.7	94.8	98 . A	95.0	35.0	45.0	<u> </u>	35.5	95.4						
≥ 900			97.9	33.4	94.7	5.1	95.3	35.5	25.5	95.6	32.6	3.4	9.06		15.6	? . 0					
≥ 900	• 4	41.7	93.5	74.6	95.9	46.1	96.3	76.5	96.5	96.6	96.6	35.6	94.6	96.6	76.7	÷6.7					
≥ 700		91.4	93.9	55.1		96.8	97.1	97.1	97.7	97.3	97.3	97.3	27.3	47.3	97.0	37.4					
≥ 400	11.3	02.0	64.4	75.6	97.0	77.3	97.5		97.7	<del></del>	37.9	97.9	67.9		97.9	97.9					
≥ 500 ≥ 400		92.4	95.0	95.1	97.6	97.5	98.2	78.9	98.0	98.6	99.5	95.1	39.6 97.1	98.6	98.7	26.7					
	1.1	77.	95.1	96.5	98.3	<u> </u>	79.3	70.3	79.3	99.5	90.5	97.5	124.5		49.6	¥9.4					
≥ 300 ≥ 200	1.1	12.5	93.4	96.5	· . I	-8.5	99.1	99.3	29.4	99.7	99.7	99.7	99.7	99.7	99.6	99.6					
	- 1 - 1	2.9	93.1	96.5		30.5	99.1	70.4	99.5		79.8		99.9	29.9		99.9					
≥ 100 ≥ 0	1 2	2.5	93.1	96.5	98.7	98.3	99.1	09	09.5	;	77.8	99.8	90.9		130.G						

TOTAL NUMBER OF OBSERVATIONS

### **CEILING VERSUS VISIBILITY**

73-12

# PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING	VISIBILITY (STATUTE MILES)															
(PEET)	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 21/4	≥ 2	≥ 1%	≥ 1%	≥ 1	≥ ¥	≥ %	≥ %	≥ 5/16	≥ %	≥ 0
NO CEILING ≥ 20000	25 • 1 26 • 2	77.1 68.4	57.7	69.4	57.7	57.7	57.7	57.7	59.9			57.7	57.7	57.7 68.4	57.7	57.7
≥ 18000 ≥ 16000	6.5	63.4	68.4	65.4	68.4	65.4	64.4	6.8 a	56.4	63.4	60.4	58.4	65.4	65.4	64.4	62.4
≥ 14000 ≥ 12000	5.0	56.	64.7	65.7	50.7	68.7	68.7	68.7	65.4	68.7	5.0.7	65.7	5 9 . 7	68.7	65.7	59.7
≥ 10000	71.2	34.2	74.5	74.5	74.5	74.5	74.5	14.5	74.5	74.3		74.5	74.5	74.5	74.5	74.5
≥ 9000	7 2 0 3 2 6 0 R	79.4	74.8	79.7	74.8	74.0	79.5	79.8	79.3	79.7	74.0	74.8	79.7	79.7	79.7	70.7
≥ 7000	7.1	79.7	81.	41.4	*1.0	1.3	81.3	70.5	81.7	51.3	€0.10 -1.0	€3.µ 81.0	11.0	21.0	37.0	91.0
≥ 5000 ≥ 4500	75.4	42.4	34.8	82.9	94.8	F2.5	32.9	2 4 62 5 4 62	84.8	82.9 84.8	84.8	62.9 84.8	30.9	82.3	17.9	62.9
≥ 4000 ≥ 3500	\2 . f	25.5 98.1	59.4	93.4	85.A	26.8	56.8	86.5 68.4	36.4	80.4	85.8 56.4	56.3 58.4	12.4	86 . B	86.4	69.4
≥ 3000	5.1	21.6	97.3	70.3	90.4	13.3	91.9	°0.3	91.0	9:05	27.3	91.7	91.9	91.2	77.3	71.7
≥ 2000	е ,	73.2	93.6	95.2	95.0	3.	93.6	75.2	93.5	73.6	93.6	95.2	71.6	93.6 95.2	93.6	27.4
≥ 1500	) • 0	36.1	97.1	97.1	97.1	97.1	97.1	77.1 7.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1
≥ 1200 ≥ 1000	1.4	37.4	95.4	78.4	98.4	78.4	98.7	98.7	78.7	35.7 69.7	98.7	98.7	94.7	76.7	₽₽.7	24.7
≥ 900 ≥ 800	31.6	7.4	93.4	98.4	98.7	50.7	99.3	98.7	40.7	99.0	98.7	00.5	93.n	99.5	99.0	63.
≥ 700 ≥ 600	11.6	48.1	99.4	99.0	99.4	79.4	99.7	79.7	99.7	99.7	79.7	99.7	49.T	77.7	99.5	79.7
≥ 500 ≥ 400	21.6	48 - 1	99.	99.	99.4	19.4 29.4	99.7	79.7	99.7	79.7	99.7	99.7	99.7	50.7	99.7	99.7
≥ 300 ≥ 200	1.5	78.1	90.7	49.7	99.4	69.4	100.0		107.9	100.0		100.2	100.0	100.0	107.0	107.0
≥ 100 ≥ 0	1.0	38.1 38.1	99.0	97.U	97.4		1.0.0 1.0.0	100.0			109.0 109.0				100.0	

TOTAL NUMBER	OF ORSERVATIONS	, <u>I</u>

TAGESS, TO

9 (73)

### **CEILING VERSUS VISIBILITY**

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING	VISIBILITY (STATUTE MILES)															
(FEET)	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 21%	≥ 2	≥ 1%	≥ 1%	≥ 1	≥ %	≥ 46	≥ %	≥ 5/16	≥ 4	≥ 0
NO CEILING	· 3 . A	44.2	54.5	54.5	54 . 5	54.5	54.5	14.5	54.5	54.5	54.5	54.5	54 . F	54.5	54.5	54.5
≥ 20000	5 4 · 4	57.4	50.7	59.7	50.7	59.7	59.7	59.7	59.7	59.7	50.7	59.7	50.7	59.7	59.7	59.7
≥ 18000	50.4	59.4	59.7	59.7	59.7	59.7	59.7	E9.7	59.7	59.7	19.7	59.7	53.7	5.9.7	59.7	37.7
≥ 16000	34.4	59.4	55.7	59.7	59.7	59.7	59.7	59.7	59.7	57.7	59.7	57.7	44.7	59.7	50.7	59.7
≥ 14000	50.4	43.4	57.7	59.7	50.7	59.9	49.7	59.7	59.7	59.7	50.7	29.7	53.7	59.7	59.7	59.7
≥ 12000	4-Q-5	-9-3 <b>-</b> €	61.3	51.3	61.3	61.3	61.3	61.3	61.7	61.3	61.5	61.3	61.3	41.3	61.3	51.
≥ 10000	£ . ¢	67.	67.7	57.7	67.7	67.7	67.7	57.7	57.7	67.7	57.7	67.7	67.7	67.7	67.7	57.7
≥ 9000	.6.4		6 . 7	5007	69.7	58.7	68.7	48.7	58.7	56.7	68.7	68.7	88.7	68.7	68.7	44.7
≥ 8000°	6.3.1	64.7	40. G	77.0	72.5	.70.0	70.0	20.0	73.0	70.0	70.0	70,0	77.5	70.0	77.0	70.5
≥ 7000	50 at	70.1	70.7	70.7	79.7	70.7	70.7	79.7	77.7	70.7	79.7	70.7	70.7	75.7	70.7	16.7
≥ 6000	€ 50 € 4	71.1	71.6	71.6	71.6	71.6	71.4	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6
≥ 5000	71.1	73.2	73.6	73.6	73.6	73.6	71.6	73.0	73.6	73.₺	77.5	73.6	77.6	73.€	73.5	73.5
≥ 4500	15.4	75 - 4	75.5	75.5	75.5	75.3	75.5	75.5	75.5	75.5	75.5	75.5	75.5	75.5	75.5	75.5
≥ 4000	/4 • 4	76.5	77.1	77.1	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4
≥ 3500	75.	78.1	75.4	73.4	75.7	78.7	74.7	78.7	78.7	78.7	76.7	79.7	76.7	78.7	78.7	78,7
≥ 3000	76.	40.7	60.5	*0.3	60.T	40.Y	83.7	30, 7	8 . 7	e 🤈 . 7	87.7	3 0 • 7	4° • 7	80.7	27.7	
≥ 2500	7.7	41.0	51.	1.3	81.4	11.6				01.6	31.6	91.6	31.6	,	81.5	* } . 4
≥ 2000	- 2 0	4.5	54.F	24 . 8	85.2	45.2	45.7	15.Z	35.2	83.2	45.45	85.2	c 5 • 2	35.7	85.2	95.5
≥ 1800	1.4	32.5	3 10 5	75.5	85.8	35.9	45.3	28.3		52.8	•	45.8	85.8	65.0		45.8
≥ 1500	4.2	43.4	90.	80.3	87.4	19.4	39.4	19.4	37.4			89.4	69.0	89.4	89.4	84.4
≥ 1200	.5.7	♦D•0	91.0	91.0	67.3	11 - 1	01.3	*1.3	31.1	91.3	01.3	:1.3	91.3	91.3		
≥ 1000	* * • *	21.9	92.9	92.9	93.4	3.5	93.9	93.9	93.0			33.8	01.3		93.7	97.9
≥ 900	86.	45.4	94.9	36.2	74 . 3	°5.2	97.5	38.5	95.5	25.5		35.5		r i		95.5
≥ 800	-: 7 . 1	73.6		54.5	95.3	35.3	76.1	46.1	76.1	76.1	96.1	46.1	94.1	36.1	76.1	76.1
≥ 700	7.1	33.0		05.2	35.4	40.1	96.5	₹6.4	95.5	96.5	96.5	56.5	-	76.5	96.5	96.5
≥ 600	27.1	94.2	93.5	25.1	96.4	47.1	97.4	77.4	97.4	97.9	97.4	97.4	57.4	97.4	97.4	97.4
≥ 500	7 - 1	34.2	95.5		96.8	97.1	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7
≥ 400	7 • 1	34.2	94.1	90.8	37.7	<b>\8.1</b>	99.7	CA.7	78.7	08.7	96.7	94.7	54.7	98.7	95.7	
≥ 300	7.4	34.5	96.3	\$7.4	98.4	¥9.7	99.7	99.7	79.7		ם.הנוו		_	100.0		
≥ 200	57.4	04.5	76.9	77.4	33.4	98.7	99.7	79.7	39.7					100.0		
≥ 100	37.4	74.5	96.8	47.4	- (	28.7	99.7	79.7	99.7	- 1	;		-	100.0		
[ ≥ 0	.7.4	_74.5	96.8	97.4	94 . 4	78.7	99.7	39.7	59.7	99.7	100.0	100.0	107.0	100.0	100.0	100.3

310 TOTAL NUMBER OF OBSERVATIONS\_

CALLASA TX

#### **CEILING VERSUS VISIBILITY**

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

VISIBILITY (STATUTE MILES) CEILING (PEET) ≥ 2 ≥ 114 ≥ 1% 94.5 45. NO CELLING 41.6 45.8 ≥ 20000 ≥ 18000 ≥ 16000 49. 49.4 47.7

71-07

49.7 50.0 20.0 ≥ 14000 ≥ 12000 .6.8 ≥ 10000 ≥ 9000 57.1 40.0 60.3 60.3 60.3 50.3 60.3 60.7 40.7 69.7 41.3 61.6 61.6 61.A 61.6 ≥ 6000 ≥ 5000 42.9 63.2 63.2 03.2 63.2 65.2 64.8 55.2 65.2 65.2 47.7 A5 -1 68 -1 68 -1 60.7 65.5 68.1 48.1 65.1 60.7 66.7 68.7 68.7 68.7 68.7 81.5 67.1 58.4 65.7 ≥ 3500 ≥ 3000 68.7 70.3 70.7 70.7 7:47 70.7 70.7 70.7 70.7 73.2 73.6 73.5 73.5 73.6 73.6 73.6 73.6 71.0 71.9 73.6 ≥ 2500 ≥ 2000 76 . 8 77.1 77.1 77.1 77.1 73.9 75.8 78.1 80.7 77.4 ≥ 1800 ≥ 1500 82.3 /2.3 37.8 92.2 85.5 65.5 95.5 85.5 85.5 15.5 91.3 91.3 91.3 91.6 91.6 91.6 65.5 61.5 93.9 45.2 95.5 ≥ 1200 ≥ 1000 30 · 7 91.6 16.3 80.7 c1. 61.6 31.6 41.9 91.3 41.4 91.0 24.2 93. 94, 54.2 94.8 91.9 94.5 94 . 5 74.8 37.7 95.1 77. 92.4 95.2 75 .: 99.7 96.1 95.1 95.0 97.1 71.5 #3.6 89.7 93.6 \$5.2 95.5 75.8 97.1 97.1 97.1 97.1 94. 98.1 71. 90.0 36.8 96.8 94.1 11. 83. 94 . 5 97.1 67.7 97.7 99.0 99.0 47.0 97.0 71. 0:.3 0:.3 99.4 77.4 94.5 40.4 99.4 3:06 97.4 98.1 98.1 71. 94.5 97.4 48.1 78.1 49.4 54.4 93.6 71. 04.1 90.0 94 . 8.5 97.4 98.1 99.4 99.4 39.1 ١, 99.7 94.5 97.4 05.1 94.4 98.1 99.4

IATO	NUMBER	OF OBSERVATIO	2NS	į.

DIRNAVOCEANMET

### **CEILING VERSUS VISIBILITY**

HOURS ( L S T )

STATION STATION HAND

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING		,					VIS	HBILITY (ST	ATUTE MIL	ES)						
(PEET)	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 21/2	≥ 2	≥ 11/2	≥ 1%	≥ 1	≥ %	≥ %	≥ %	≥ 5/16	≥ 4	≥ 0
NO CEILING ≥ 20000	37.0	47.7	4 . 4		43.7	43.7	43.7	53.7	43.7	45.7	43.7	43.7	43.7	\$3.7	45.7	47.0
≥ 18000	47.0	47.3	48.2	40.9	48.9	48.9	47.9	48.9	4.3 p 7	98.9	49.0	48.9	47.9	48.9	43.6	47.4
≥ 14000	1101	47.6	49.2	49.2	43.9	49.2	49.2	49.2	49.2	48.7	47.2	49.2	47.2	49.2	49.7	40.9
≥ 14000 ≥ 12000	42.4	49.2	5 . 2	3.1.8	50.5	50.3	57.8	50.6	54.5	53.8	50 · H	50.8	. • •	57.9	50.8	50.8
≥ 10000 ≥ 9000	410	53.0 Y	54.7	55.6	56.6	\$6.0	56.0	56.3	36.	56.0 56.6	55.0°	55.0		55.0	56.6	56.0
≥ 9000	46.3	.5.4	51.9	55.2	59,2	59.2	59.2	59.2	56.5	59.2	39.2	\$7.2	57.7	50.0	\$6.6	56.6 20.2
≥ 7000	45.7			60.2	60.2	(0.2	60.3	50.2	60.2	6ù-2	69.2	60.2	60.2	57.2	60.	41.00
≥ 4000 ≥ 5000	37.5	53.6	59.9	41.2 42.8	61.2	62.3	51.7 52.8	41.8	67.8	62.8	61.2	61.2 62.3	62.8	61.2 52.8	61.8	61.0
≥ 4500	3,100	61.5	62.8	64.1	64.1	64.1	54.1	64.1	64.5	64.1	54.1	64.1	(4.1	64.1	54.1	A 4 . !
≥ 4000 ≥ 3500	5.00	6.3.4	65.1	64.3	66.7	46 • 0 56 • 3	66.3	66.3	66.3	66.3	65.3	66.3	56.3	56.3	66.	56.3
≥ 3000	4.7	56.3	67.6	66.9	63.9	68.9	68.0	13.9	61.7	68.9	66.9	63.9	A 3 . 9	69.4	68.9	68.9
≥ 2500 ≥ 2000	3 7 • S	75.1	77.6	71.8	71.3	71.5	71.4	71.8	79.3	73.3	71.8	71.8	71.9	71.8	78.3	73.7
≥ 1800	· 2 • *	77.4	79.6		30.9	80.9	80.7	10.9	30.9	10.7	60.9	80.7	97.9	80.9	B ?	B
≥ 1500	3.7	70.4	87.1	91.3	91.9	73.9	91.9	87.0	39.0	81.9	57.0	31.0	91.9	99.0	91.9	91.9
≥ 1200 ≥ 1000	:5.7	86.0	91.3	¢3.2	93.4	<4.5	94.8	65.2	95.2	95.2	95.2	95.2	9 . 2	65.2	35.2	95.2
≥ 900 ≥ 800	16.5	88.0	91.5	93.5	94.2	94.8	96.4	95.5	95.5	95.5 96.8	97.1	97.1	95.5	95.5	95.5	95.5 97.1
≥ 700	55.	19.0	97.7	45.2	V3.8	76.4	95.5	97.1	97.1	97.1	97.4	97.4	57.4	67.4	97.4	\$7.0
≥ 400	1.50	89.1	93.2	35.8	96.9	97.4	97.7	75.4	98.4	98.4	98.4	98.4	54.7	78.4	98.7	0 3 7
≥ 500 ≥ 400	.6.	89.J	93.2	o 9 . 8	96.3	47.7	99.0	99.4	49.4	99.7		100.0		100.0	100.0	100.0
≥ 300 ≥ 200	36 of	R9.	93.2		96.8	97.7	99.0	99.4	99.4	99.7	150.0	100.0			100.0	
≥ 100	46.7	89.17	93.2	95.8	95.9	47.7	99.0	40.4	99.4	77.7	1000	100.0	107.0	177.7	122.0	190.0
Σ 0	16.5	89.0	73.2	35.3	96.5	97.7	99.	20.0	79.4	99.7	100.0	160.0	100-D	100.0	100.0	1000

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## **CEILING VERSUS VISIBILITY**

17361	(141,6 45 p. Tr	7 t • 3 2	PAY
STATION	STATION NAME	YEAGS	40074
		ITAGE FREQUENCY OF OCCURRENCE FROM HOURLY OBSERVATIONS)	HOURS IL S T I

CEILING		VISIBILITY (STATUTE MILES)														
(FEET)	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 21%	≥ 2	≥ 1%	≥ 1%	≥ 1	≥ %	≥ %	≥ %	≥ 5/16	≥ 4	≥ 0
NO CEILING ≥ 20000		51.5 50.0	41.6	41.9	91.9	44.9	41.7	41.7	*1.4	41.5	41.9	41.9 50.3	43.0	41.9 50.3	91.0 50.3	61.V
≥ 18000 ≥ 16000	117 a H	50.0	\$0.0 50.0	51.3	50.3	0.3	50.3	50.3	50 T	50.3 51.3	60.3 50.5	* f = 3	80.9 10.3	50.3 50.3	50.3	5
≥ 14000 ≥ 12000	47.7	TU. 7	57.3 50.7	51.0	50.7	50.7	50.7 51.0	50.7	5.1.7 51.0	50.7 51.3	51.0	53.7 51.7	50.7	50.7	51.0	\$1.7
≥ 10000 ≥ 9000	2.5	55.5 55.5	55.2 55.5	55.5 55.6	55.5 55.8	45.7 45.6	55.5 55.8	55.5 55.8	35.5 55.5	55.5 55.7	55.5	55.5	55.4 55.8	#5.1 55.5	55.5	55.5
≥ 8000 ≥ 7000	5.2	. B . 4	54.4	*58.7 58.7	\$8.7 58.7	58.7	58.7 59.7	53.7	52.7 54.7	58.7 53.7	54.7 58.7	53.7 53.7	5 * • 7 5 8 • 7	58.7		•95. <b>3</b>
≥ 4000 ≥ 5000	56 € \$ 56 € \$	60.7	67.3	61.0	61.5	61.0 61.3	61.5 61.3	61.3	51.3	61.3 61.3	61.3	61.3	61.5	51. 51.3	51.5 61.3	51.° 61.2
≥ 4500 ≥ 4000	57.1	61.6 55.2		61.9 65.8	62.3	62 • 3	62.3	62.3	62.3 56.1	52.3 66.1	66.1	52.3 66.1	62.1	56.1	57.3 66.1	56.1
≥ 3500 ≥ 3000	71.9	71.5	71.9	72.3 79.4	72.9	72.9 50.0	72.9 83.0	72.9 53.0	72.8 30.0	72.5 30.0		72.9 80.0	77.0 37.5		77.7	3, 61
≥ 2500 ≥ 2000	1.	85.9	86.5 90.0	90.3	91.0	97.4	87.4 91.0	77.4 71.0	87.4 91.0	27.4 71.0	97.4	87.4	87.4 91.0	21.5		91.
≥ 1800 ≥ 1500	2.5	72.1	91.0	93.0	31.8	11.4 74.5	91.7	94.8	91.0	34.6	91.9	91.9		96.2	91.9	04.8
≥ 1200 ≥ 1000	3 e 2	93.2	95.8 96.8	96.1	97.1	27 • 1 28 • 4	97.4	97.4 98.7	97.4	97.4	97.4	67.4 98.7	97.4	97.4	97.4	58.7
≥ 700 ≥ 800	3.6			97.7	98.7	58.4 48.7	99.7	98.7	99.7	98.7		98.7 99.J	98.7 49.3		90.0	69.0
≥ 700 ≥ 400	93.6 93.6	73.9		97.7		9.4	99.4	69.7	99.4	99.7	99.4	99.4	20.9	99.4	99.4	99.7
≥ 500 ≥ 400	3.6	93.4	96.8	97.7	99.4	49.4	99.7	9.7	99.7		99.7					
≥ 300 ≥ 200	3.6		96.9	97.7	99.4	99.4	99.7	54.7 59.7	99.7	09.7	100.0		196.9	100.0	190.9	100.0
≥ 100 ≥ 0	3.6			97.7	99.4	79.4	99.7	99.7	99.7	39.7				100.0 100.0		

TOTAL NUM	ABER OF OSSERVA	LTIONS	٠, ١, ٠

DIRNAVOCEANMET

### **CEILING VERSUS VISIBILITY**

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

CEILING							VIS	IBILITY (ST	ATUTE MIL	E5)						
(FEET)	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 21/2	≥ 2	21%	≥ 1%	≥ 1	≥ %	≥ %	≥ %	≥ 5/16	≥ ¼	≥ 0
NO CEILING ≥ 20000	11	49.4	49.4	49.4 60.7	67.4	- 1	60.7	47.4 50.7	49.4	\$0.4 50.7	47.4	67.4	65.7	49.4 60.7		यत्त्व ८००७
≥ 18000 ≥ 16000	34	50.7	6 . 7	60.7	67.7	60.7	60.7	60.7	61.7	5 . 7	62.7	60.7	57.7	63.7		10.7
≥ 14000 ≥ 12000	35.4	62.3	61.0	61.5	61.7	2.3	51.0	41.0	61.0	62.3	61.0	51.0	51.5	61.0		
≥ 10000 ≥ 9000		56.5	55.5	67.1	67.1	£7.1	63.1	67.1	67.1	67.1	57.1	57.1 50.1	6 4 . 1	57.1	67.1	€7.1 67.1
≥ \$090 s ≥ 7000	116.0	70.3	71.3	71.5	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.5	71.3	71.3	71.3	712
≥ 4000 ≥ 5000	7,00	75.7	71.3	71.5	71.9	71.3 75.6	71.0	71.9	73.0	71.0	71.5	71.5 75.8	71.9	71.5	71.0	
≥ 4500 ≥ 4000	73.2	*5. A	75.8	77.1	77.4	77.4 3.2	93.2	77.4	77.4	77.4	77.4	77.4		77.4	77.6	77.0
≥ 3500	1.7	1.5 - 5	86.5	86.8	87.1	37.1	37.1	17.1	87.1	87.1	67.1	£3.2	-7.1		37.1	57.1
≥ 2500	7.1	21.9	33.0	43.7	9:00	i	93.5	31.6	93.6	91.5	93.4	93.6	01.6	43.0	77.6	5 %
≥ 2000	3	74.5	95.5	95.5	96.5	35.8	96.5	46.5	76. E	95.5	95.5		75.4	05.5		76.0
≥ 1500 ≥ 1200	10.0	25.5	76.9	98.1	98.7	78.1	98.1	79.7	90.7	90.7	98.7	08.7	5°.1	99.7		2 - • I
≥ 1000 ≥ 900	10 <b>1</b>	36.1	l.	79.4		9.0	99.0	79.5	99.	77.1	99.0	99.5	90.5	ō <b>♀</b> .	99.7	
≥ 600 ≥ 700		76 · 1	97.7	99.4	- 1	9.0	99.0	39.3	30.4	79.0	99.0	99.7	_	70.	34,	¢9.
≥ 400 ≥ 500 ≥ 400		76 · 1	97.7	98.4	97.4	39.4	99.4	00.4		79.4	39.4	99.4	47.4	49.4	99.4	99.4
≥ 300	130	76.1	97.7	98.4	99.4	- 1	. 1		1		99.7		170.0	100.3	100.0	
≥ 200 ≥ 100 ≥ 0	70 95 90	96.1 96.1		94.4		49.7		100.0	100.0	100.0	100.0 100.0	2000	10.0	100.0	130.7	100.0

TOTAL NUMBER OF OBSERVATIONS 712

DIRNAVOCEANMET SMOS

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#### **CEILING VERSUS VISIBILITY**

#### PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

VISIBILITY (STATUTE MILES) CEILING (FEET) ≥ 5/16 9.0 59.0 50. 50.0 7.0 54. NO CEILING > 20000 71.3 71. 71.5 71.3 71. 71.7 71.3 71.7 71.7 71.2 71.3 71.7 71.3 71. 71. 71.3 71.3 71.3 71.3 71.3 71.8 71.7 71.7 ≥ 18000 ≥ 16000 71.3 71.3 71.3 71.3 71.3 71.3 71.3 72.9 72.t 77.6 72.9 72.9 72.9 72.5 77.9 72.9 72.9 72.9 ≥ 14000 ≥ 12000 73.9 73.0 73.9 73.9 74,0 73,9 76. 7.1 ≥ 10000 ≥ 9000 77.4 77.4 77.1 77.4 77.4 77.4 77.4 77.4 77.7 0.0 41.U 51.0 -1.1 #1.0 <u>≥</u> 6000 5000 87 37.7 87. .0.0 ≥ 3500 ≥ 3000 91.9 31.0 91.0 91.9 91.9 11.9 11.9 73.f 93.4 31.0 15.9 73.9 ≥ 2500 ≥ 2000 97.2 73.6 73.5 56.4 96.3 6.1 56.1 96.5 46.5 94.05 97.1 97.1 97.1 90.3 \$7.1 ≥ 1800 ≥ 1500 .... 97.7 97.4 67.7 97.7 37.7 97.7 96.5 77.1 37.4 37.1 77. 95.5 97.7 58.1 1200 97.7 98.4 99.0 08.7 "0 . 7 98.7 99.0 39.4 43.4 \$ G . W 33.8 **≥** 04. 98.1 9. 39.4 99.4 95.1 93.7 29.1 99.4 99.4 98.7 97. 39.4 30.4 77.4 07.4 ≥ 74. 98.1 98.7 99.4 99.4 92. 79.4 49.0 93.6 98 48.1 29. 24.1 22.1 19.4 39.7 29.7 79.7 99. 79.7 99.7

99.7

44.7

99.7

99.7

19.7 49.7

TOTAL	NUMBER OF	OBSERVATIONS	,

DIRNAVOCEANMET SMOS

95.1

40.1

29.

19.4

\$9.4

### **CEILING VERSUS VISIBILITY**

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING				VISIBILITY (STATUTE MILES)												
(PEET)	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 21/2	≥ 2	≥ 11/1	≥ 1¼	≥ 1	≥ %	≥ %	≥ %	≥ 5/16	≥ 4	≥ 0
NO CEILING ≥ 20000	11.0	73.6		73.5	63.6	53.6 73.9	53. V	73.0	77.0	13.0 73.9	63.6 77.4	53.0 73.9	53.1 77.0	63.5	73.	
≥ 18000 ≥ 16000	1.0	73.6	1	73.6	77.9	73.9	73.7	73.9	73.7	73.0	73.5	77.7	7 1 0	1	7 9 6 5	
≥ 14000 ≥ 12000	7).	73.9	73.9	74.5	74 . 7	74.2	74.2	74.2	74.2	74.2	78.2	74.2	74.2	74	74.7	74.5
≥ 10000 ≥ 9000	'6 a	75.5	75.0	79.5 79.0	73.4	79.4	77.4	70.4	79.4	7 - 4	79.2	77.4	77.4	79.4	73.4	79.4
≥ 8000 ≥ 7000 •	1	52.3	# 7 . ? •4 2 - 7	62.5	3.06	2.5	92.6	3.2	50.6 63.7	52.6 83.2	97.6	02.5	5.7.2			
≥ 6000 ≥ 5000	: . )	3.6	5 6	83.6 55.8	59.9	13.9	30.1	2.9	83.0 36.1	33.0	3(.)	3.9				
≥ 4500 ≥ 4000	4 . 7 5 . 3	39.4	67.1	37.1	47.4	22.7	87.4	27.4 24.7	27.4	47.4	67.4	47.4	5 7	57.4	1	
≥ 3500 ≥ 3000		41.5	90.0	70.0	91.4	30.3	70.3	94.3	0 3		91.5	/1.9		2 . 3	<del></del>	)
≥ 2500 ≥ 2000	٠,	17.6		73.2		4.5	93.9	77.0	93 °	33.0	2 t . a	\$3.9 \$4.8				C / C
≥ 1800 ≥ 1500		03.9	94.2	24.2	97.7	95.2	94.8	1	74	95.2	75.5	23.2		75.7	95.8	•
≥ 1200 ≥ 1000	4 7	74.5		\$5.7 91.5	95 . 1 75 . 8	6.6	95.1	16.1	65.1	97.1		5.5.5 97.1		1	57.1	
≥ 900 ≥ 800	0.1	-5.2		96.5	97.1	7.1	97.1	7.7	67.1	97.4	\$ 7.0%	07.4	, , , ,		97.4 ya.1	5
≥ 700 ≥ 600	11 3	6.5	-	97.7	99.1	78.1	53.1	9.0	98.1	0 4 5 9 4	30.4	55.4	7.4	13.4		₹ .
≥ 500 ≥ 400	. 1	3.3	<del></del>	03.1	99.4			9.4	99.4	27.7	90.7	69.7 79.7	73.7	19.7		F4.
≥ 300 ≥ 200	7	6.3	97.1	98.1 96.1	97.4	39.4	99.4	79.4	00.4 00.4		99.7 99.7	09.7 40.7	100.5	162.0	135.5 135.5	
≥ 100 ≥ 0	\$ 7 . X	26.3	97.1	95.1	90.4	79.4	97.4	79.4 79.4	70.4		99.7	79.7	170.0		100.7	1 C 3 • 5

TOTAL	NUMBER	OF	OBSERVATIONS		٠,	

DIRNAVOCEANMET

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### **CEILING VERSUS VISIBILITY**

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING							VIS	SIBILITY (ST	ATUTE MIL	ES)						
(FEET)	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 21/3	≥ 2	≥ 11/3	≥ 11/4	≥ 1	≥ 4	≥ %	≥ %	≥ 5/16	≥ %	≥ 0
NO CEILING ≥ 20000	4		21.2 57.5	61.7	* 1 · ·	1.0	57.0 50.4	€2.0 90.4	32. 63.4	1	- 7 - 4		•	. 4	7 3.	•
≥ 18000 ≥ 16000		50.7	30.4 53.4	÷ .	6 1 • 3 1 • 3	3.3	દ <b>ે</b> - ધ		53.4		!	F : • 4		0 ( • 4 5 0 • 4	4 4	
≥ 14000 ≥ 12000	5 € 3 0 € 7	9.1	5	5 .5 51.4	61.7	60.5	6".7	1 1 . 7	5 1 • 7	u 2.aβ		51.7	60.8	- 3.1 -1.7	£0.0	. ,
≥ 10000 ≥ 9000	7) 7) 1)	* • * · · ·	62.2	66.5 64.9	55.07 67.1	56.3	54.8	46.5	67.7	66.00 07.3	55.3	65.9 67.3	1 6 . A	46 et		6 6
≥ 8000 ≥ 7000	2 7	66 • 1 F • 3	ام نا	67.8 79.3	70.1 71.5	70.2	70.2	70.2	70.5 10.6	7 • 2 7 • 5	7 . 2	77.2	7 • 2 7 • 6	7	7~.(	,
≥ 6000 ≥ 5000	- 2.0 10 • 20	71.1			71.5 73.5	73.0	71.0	71 • 6 73 • 6	71.0	71.05	71.0	71.6 75.6		71.5	71.1	71.
≥ 4500 ≥ 4000	, ₹ • ß	72.5 75.65	75.7	74.5 77.6		78.1	75.1 76.1	75.1	7 • 1	7 4 - 1	75.1 75.1	77.1	77.1	7 * • 1	74.1	
≥ 3500 ≥ 3000	11.	77.A			,	26.3 23.2	80.3 80.3	*5.3	57.4 33.4	^ 7. ! ^ 3. !	3 3 3	73.3	10.7	17.1		
≥ 2500 ≥ 2000	ų,	52.9 05.5		74.2 83.1		5.9 3.9	85.7 59.0	i i	36.1 #7.	30.0 80.1	44. 99.3	34.0 34.0	50.1	νη •/21 39•1	36.	
≥ 1800 ≥ 1500	7 . S	76.7	88.7	67.1 71.9	93.7	.0.9 .2.5	92.9		63.0 63.0	90.5 93.0	च . । ३३. गू	50.3 41.3	, ,	-3.	73.7 73.0	•
≥ 1200 ≥ 1000		49.5 95.0	92.1	7.5.5 75.5		4 . 4	74.5 95.5		94.5	94.5	-4.6 -6.7	*4.0	44.4	₹4.5 98.7	7 K . 7	
≥ 900 ≥ 800	3	71.1	95.5	05.3	27.	7.5	96.9	:7.7	26.0 ≱7.7	97.4	97.5	97.5	97.9		97.1	97.0
≥ 700 ≥ 600		01.k	94.6 94.0	°0.1 ₹0.6	97.3 97.8	07.5 08.2	\$7.9 94.5	212 4,	37.00 28.6	95.1 93.8	95.8		33.6	43.		
≥ 500 ≥ 400	3 • L	71.7 -1.7	98.9 95.4	96.7 96.4	9" • D	8 . 3		^9.2	96.2		99.5		*****			6 4 g
≥ 300 ≥ 200	1.:	1.7	95. 56.	95.9	94.7	-6 • : ⊹ • 3	97.3 97.5	19.5	30.6	36.7	99.8 49.8	32.6 36.4	97.0		39.0 70.6	₹ <b>.</b>
≥ 100 ≥ 0	i • 1 ! • 1	1.7	35	15.4	90 - 1	₹ <b>.</b> .3	99.3	10.5	37.5	99.7	99.4	99.6	• • • • • •		107.5 123.5	

TOTAL NUMBER OF OBSERVATIONS

DIRNAVOCEANMET SMOS

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141 EAS, 1

## **CEILING VERSUS VISIBILITY**

HOURS (L S T 1

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

13-5

CEILING							VIS	HBILITY (ST	ATUTE MI	LES)						
(FEET)	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 21/2	≥ 2	≥ 11/2	≥ 1%	≥ ;	≥ %	≥ %	≥ %	≥ 5/16	≥ %	≥ 0
NO CEILING		74.	74.3	74.3	74 . ?	74.5	74.3	74.3	14.	74.3	7 H g 3	74.5	74.3	74.3	74.3	74.5
≥ 20000		31.7	31.7	91.7	A1.7	71.7	81.7	31.7	31.7	£1.7	81.7	21.7	F1.7	91.7	51.7	81.7
≥ 18000	"	?1.7	81.7	51.7	81.7	01.7	81.7	01.7	81.7	61.7	81.2	81.7	51.7	H1.7	81.7	31.7
≥ 16000	• 7	43.7	31.7	£1.7	81.7	51.7	01.7	41.7	61.7	91.7	21.7	51.7	61.7		81.7	31.7
≥ 14000	1.0	92.0			82.0	2.	80.0	42.0	52.7	83.0	8	92.0	3°5	82.0°	i	33.0
≥ 12000	1.5	12.7	82.7	92.7	32.7	22.7	82.7	82.7	32.7	87.7	32.7	32.7	87.7	82.7	42.4	37
≥ 10000	5 • ₹	17.3	87.3	37.3	97.3	77.3	87.3	67.3	47.3	87.3	87.3	77.3	57.3	87.3	87.3	8 7 . 3
≥ 9000	5 • 3	47.7	37.7	L	87.7	47.7	87.7	77.7	87.7	97.7	27.7	£7.7			87.7	47.7
≥ \$000	89.	43.0	91.0	ľ		71.0	91.0	31 €	91.0	37.1	91.0	91.5	91.0°	91.0	91.7	91.
≥ 7000	37.0	91.	91.0	71.3	91.0	91.0		21.0	21.7	71.0		71.0	91.0		21.	31.
≥ 6000	• *	61.7	93.7	51.7	37.7	31.7	91.7	C1.7	41.7	21.7	91.7	\$1.7	91.7	91.7	4.	31.
≥ 5000	``•}	22.	93.0	33.3	72.0	72.0	92.	72.5	97.0	25.0	92.0	25.3		35.0	77.0	43.
≥ 4500	, 1-° .	د• که	45.1	65.4	97.7	72.7	45.7	25.4	45.4	35.3	92.7	45.4	600	35.7	22.7	
≥ 4000	15.3	34.7	74.7	90.7	04.7	94.7	94.7	24.7	94.7	24.7	94.7	74.7	04.7	94.7	94.7	
≥ 3500	i is .	76.63	96.0	29.00	46.0	46.0	95.0	96.	95.	76.3	96.	36.	76.0	73.0	95.	20.0
≥ 3000	25.7	77.3	97.3	97.3	\$7.3		97.3		97.3	97.3	97.3	97.3	07.3	77.3	27.3	97.
≥ 2500	.,	77.7	22.7	37.7	97.7	24.4	97.7	7.7	31.1	67.7	45.4	97.7	97.7	. 32.2	94,7	97.7
≥ 2000	76.€3	5 € • 7	76.7	93.7	< 8 • 7	78.7	48.7	76.7	94.7	24.7	38.7	98.7	25.7	39.7	98.7	
≥ 1800	. 5	93.	93.7	73.7	34.7	26.7	72.7	98.7	98.7	74.7		96.7	4:07	28.7	98.7	\$2.7
≥ 1500	7.0	¥9.	80.3	99.7	22.7	19.7	99.7	29.7	7	19.7	50.7	99.7	i -	45.7	79.7	54.7
≥ 1200	-7.	39.3	99.3	6.0.3	99.7	9.7	20.7	(9.7	20.7	97.7	-≎.7	-		39.7	\$0.7	20.1
≥ 1000	7 • 1	59.3	16.56	99.7	99.7	19.7	96.7	59.7	73.7	i 1	96.3	99.7	_	49.7	79.7	39.7
≥ 900	7.0	99.	34.3	03.7	33.7	09.7	99.7	79.7	33.7	33.1	39.7	96.7	45.7	99.7	79.7	0.2
≥ 800	7.7	99.3	99.3	100.0	168.A	3 ⊝3• ^	160.0	1,40.0	103.0	110.5	100.3	134.3	1.00.0	107.	150.1	100.0
≥ 700	.7.	39.3	99.3	100.0	100.0	160.0	170.0	130.0	12000	100.0	167.3	120.0	100.0	100.0	130.0	1300
≥ 600	11.5	40.3	29.3	100.0	100.0	100.0	100.0	170.J	137.0	100.0	100.0	120.0	まじた。か	וייסר ב	100.0	13"
≥ 500	.7.	99.	97.	10.0	102.0	100.0	100.0	100.0	100.0	100.0	100.3	roc.a	100.0	100.0	150.0	177.0
≥ 400	7.	99.3	49.3	100.0	100.0	100.0	100.6	190.0	100.0	170.0	100.0	130.0	1110.0	10°0	159.0	1000
≥ 300	97.0	79.3	39.3	1 70.0	100.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	127.0	1 20.0	1 .0 . 1	1.17
≥ 200	97.0	34.1	90.5	100.0	100.0	1.0.5	100.0	1 70.0	130.0	170.0	100.0	103.0	ת.חר ב	100.0	100.3	100.3
≥ 100	77.	79.3	94.3	130.0	170.7	1 0.0	100.0	1 7.3	100.0	104.3	100.0	100.0	117.0	100.0	167.0	100.0
2 0	97.0	39.	99.	100.0	100. n	1 .0.0	100.0	100.0	100.0	130.0	100.0	100.0	107.0	100.0	120.5	1.5.3

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OTAL NUMBER OF OBSERVATIONS	-		_

DIRNAVOCEANMET SMOS

113

#### **CEILING VERSUS VISIBILITY**

DALLAS, TO 13-27 33 PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING							VIS	IBILITY (ST	ATUTE MIL	LES)						
(FEET)	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 21%	≥ 2	≥ 114	≥ 1%	≥ 1	≥ %	≥ %	≥ %	≥ 5/16	≥ ¼	≥ o
NO CEILING ≥ 20000	7.3.3	74.7	চল ১ 3 75 - 3	75.3	75.3	75.3		75.3	75.7	75.3	74.3	75.3	75.3	69.3 75.3	75.5	75.3
≥ 18000 ≥ 16000	73.3	74.7	75.3	75.3	75.3	75.3	75.3 75.3	75.3 74.3	75.5	75 • 3 75 • 3	75.3	75.3	75.3	75.3	75.3	75.3 75.3
≥ 14000 ≥ 12000	74.3	75.3	75.3 76.0	75.3 75.0	75.3	75.3 76.3	75.5	75.3 76.5	75.3	75.3	75.3 76.0	76.3	75.5	75.3 76.0	75.3 76.0	75.4
≥ 10000 ≥ 9000	77.3	79.5	79.7	79.7	79.7	79.7	79.7	79.7 79.7	77.7	79.7	79.7	79.7	79.7	79.7	79.7	79.7
≥ 8000 ≥ 7000	-1.7	73.0 93.3	84.0	83.7	84.0	83.7 84.6	83.7	84.0	34.0	33.7 34.0	63.7 64.2	83.7 54.0	53.7 84.0	7.83 0.45		27.7 84.
≥ 4000 ≥ 5000	32.0	35.3	86.7	96.3	де. 7 56 - 3	24.7 66.3	86.3	94.3	84.7	84.7	89.7	84.7	84.7 85.3	84.7	26.3	84.7 95.1
≥ 4500 ≥ 4000	-4.3	#5.7 86.7	87.73 8P.G	A7.3	97.3 88.3	17.3	87.3 69.3	87.3 83.3	67.3 49.3	97.3 98.3	47.3 68.3	87.3	27.3 83.3	57.3 88.3	57.3	67.3 88.1
≥ 3500 ≥ 3000	-5. c	85.7	88.7 88.7	56.3 89.0	38.3 89.0	9 <b>4.3</b>	87.3 89.0	58.3 29.0	57.5	83.3 89.0	88.3 89.0	89.7	50.3 49.0	38.3 80.0	88.3	48.3
≥ 2500 ≥ 2000	6.3	71.0	97.3	90.0 92.7	92.7	70.0	90.0 92.7	90.0 92.7	92.7	92.7	97.7	90.0 92.7	90.7	97.7	92.7	90.0 92.7
≥ 1800 ≥ 1500	71.0	93.7	95.7	95.3	93.0	73.0	95.3	93.0 95.3	93.5	93.0 94.3	93.3 95.3	95.3	95.00 95.3	93.0	93.	95.3
≥ 1200 ≥ 1000	72.00 73.00	25.13 25.13	35.3 47.3	98.7	97.7	76.7 77.7	97.7	76.7	75.7 77.7	95.7	95.7 57.7	75.7 97.7	55.7 57.7	76 • 7 77 • 7	96.7	77.7
≥ 900 ≥ 900	~ 3 • 3	96.3	97.3	94.3	96.3	2 • Bc	97.7 98.3	97.7	97.7	75.3	97.7	98.3	99.3	97.7 55.3	78.7	
≥ 700 ≥ 600	4 . 5	76.7	93.7	99.3	99.7	19.3	99.3	29.3	99.3		94.7	- 1	30°3	28.7	39.7	94.1
≥ 500 ≥ 400	74.3	37.7	90.0	20.7	99.7	79.7	99.7 99.7	79.7 100.0	34.7	100.0	100.0	99.7		120.0		<b>60.</b> 7 100.3
≥ 300 ≥ 200	94.3	97.7	93°U	99.7	99.7	9.7	99.7	າກວ.ຄ	100.0	100.0	100.0	100.0	100.0	100.3	0.001	100.3
≥ 100 ≥ 0	94.3	77.7	99.0	39.7	99.7	79.7				100.0				100.0 100.0		

TOTAL NUMBER OF OBSERVATIONS

DIRNAVOCEANMET SMOS

11 1

### **CEILING VERSUS VISIBILITY**

97931

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DALLAS, Tr

73-42

#### PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING							VIS	IBILITY (ST	ATUTE MIL	ES)						
(FEET)	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2%	≥ 2	≥ 1%	≥ 1%	≥ 1	≥ %	≥ %	≥ %	≥ 5/16	≥ %	≥ 0
NO CEILING	45.0	54.	54.7	24.3	34.7	-8.7	58.7	2707	58.7	58.7	59.7	< 9. Y	20.0	53.7	59.	50.
≥ 20000	• 3 • 3	59.3	60.7	43.7	65.3	15.3		45.5	65.3	65.3	65.3	£5.3	65.8	45.3	65.7	65.7
≥ 18000	50 • \$	59.3	62.7	63.7	65.3	63.3	65.3	65.3	65.3	55.3	65.3	02.1	65.3	05.3	65.7	65.7
≥ 16000	?• ¥	19.3	60.7	63.7	65.3	+5.3		45.3	63.	55.3	65.3	55.3	45.3	65.3	65.7	65.7
≥ 14000	11.	60.0	61.3	54.3	66.3	66.0		56.0	66.C	65.0	66.7	56.3	55.0	56.5		66.3
≥ 12000	1.7	61.0	•2.3	65.3	67.0	67.0	67.0	67.0	67.0	67.0	67.3	67.3	6.0	67.d	67.3	67.3
≥ 10000	35.2	49.0		69.7	71.3	71.3	71.5	71.3	71.3	71.3	71.3	71.3	71.3		71.7	71.7
≥ 9000	30.0	56.5		70.7	72.3	72.5	72.3	72.3	72.3	72.3		72.3	72.3		72.7	72.7
≥ 8000	.9	69.0	40.4	73.7	7 - 3	75.3	75.3	75.3	75.3	75.3	75.3		75.3	75 . 3	75.7	75. ?
≥ 7000	50.0	69.1	70.7	73.7	75.3	75.3	75.3	75.3	75.4	75.3	75.3	75.3	74.8	75.3	75.7	75.7
≥ 6000	38.3	69.7	71.3	74.7	76.3	74.3	76.3	76.3	76.3	76.3	76.3	76.3	75.3	76.3	76.7	
≥ 5000	ະປ• <b>ິ</b>	71.0	72.7	76.0	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	78.7	
≥ 4500	-ક∷-7	72.0	73.7	77.0	71.07	78.7	78.7	78.7	78.7	78.7	70.7	78.7	79.7	74.7	79.	79.
≥ 4000	-1.3	73.	74.7	78.3	76.7	79.7	77.7	79.7	79.7	79.7	77.7	79.7	79.7	79.7	83.0	3000
≥ 3500	71.7	73.3	75.0	75.3	8		80.0	80.0	An.c	80.0	- 1	40.0	30.0	*0.0		80.3
≥ 3000	53.7	76.0		81.D		\$3.0	83.0	93.C	33.2	93.0	53.0	£3.0	53.C	93.0		R 7 . 3
≥ 2500	્દ ≨ • ગુ	70.7	87.3	83.7	85.3	45.7	85.7	35.7	85.7	85.7	85.7	55.7	55.7	85.7	86.	80.7
≥ 2000	67.7	81.7	83.3	56.7	84.3	58.7	38.7	\$A.7	89.7	88.7	88.7	48.7	93.7	68.7	89.1	89.0
≥ 1800	67.7	82.0	83.7	67.0	84.7	89.0	7 7		84.7	89.3	89.5	89.0	87.0			46.5
≥ 1500	70.3	85.3	85.0	71.3		93.7		93.7	93.7	73.7	93.7	93.7	97.7		94.0	94.1
≥ 1200	76.07	56.7	8 P . 7	65.C	54.0	24.3	94.3	24 - 3	74.3	94.3	94.3	94.3	84.3	94.3	94.7	** . 7
≥ 1000	72.1	87.7	913	33.7	95.7	46.0		26.0	96.0	96.0	96.3	46.0	45.7		96.3	96.3
≥ 900	72.7	38 - 7	90.7	74.0	96.0	56.3	96.3	56.3	76.3	26.3	96.3	96.3	96.3	96.	96.7	76.7
≥ 900	72.7	89.0	91.7	25.0	37.0	97.3	97.3	97.3	97.7	97.3	97.3	37.3	97.3	1	97.7	97.7
≥ 700	73.0	59.3	97.3	95.7	97.7	08.0	9 . C		98 -17	68.0	99.0	98.0	50.0		98.3	98.3
≥ 600	73.3	99.7	92.7	76.0	98.3	98.7	99.0	38.0	99.7	38.1	49.7	99.0	39.1			99.5
≥ 500	73.3	A9.7	97.7	75.3	38.	08.7	99.0	34.0	99.3	99.3	99.0	99.5	64.0		1	90 T
≥ 400	~2.3	89.7	97.7	96.0	4.3	98.7	99.0	79.0	60.0		99.7	99.7	99.7		500.0	
≥ 300	73.3	99.7	92.7	96 . C	98.3	C8.7	99.0	44.0	34.0	49.7	99.7	89.7	99.7		:00.0	
≥ 200	73.7	19.7	92.7	94.5	98.3	96.7	64.0	99.0	49.0	99.7	99.7	79.7	29.7		100.0	
≥ 100	4 4 3	89.7	92.7	96.	99.3	78.7	99.0	64.0	34.0		79.7	99.7	19.7		100.0	
≥ 0		49.7	92.7	76.	98.3	98.7	99.3	79.3	99.0	99.7	79.7	89.7	29.7	99.7	0.004	100.0

TOTAL NUMBER OF OBSERVATIONS

## **CEILING VERSUS VISIBILITY**

"ALLAS, Fr

13-02

#### PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

74

CEILING							VIS	BILITY (ST	ATUTE MIL	.ES)						
(FEET)	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2%	≥ 2	≥ 1%	≥14	≥ 1	≥ %	≥ %	≥ 16	≥ 5/16	≥ ¼	≥ 0
NO CEILING ≥ 20000	96.0 53.7	51.7	5:00	53.3 61.3	53.3 61.3	53.3	53.3	£3.3	53.3	53.3	53.3	53.3	53.3	53.3		53.3 61.3
≥ 18000 ≥ 16000	3.7	59.7	61.0	61.3	61.3	61.3	61.3	51.3	61.3	61.3	61.3	51.3	61.3	61.3	61.3	
≥ 14000 ≥ 12000	34 3	50.3	61.7	62.0	52.0 62.7	12.0	62.7	62.0	62.5	62.7	62.7	(2.7	52.7	62.0	62.3	42.C
≥ 10000 ≥ 9000	57.0	63.7	65.0	65.3	65.3	65.3	65.3	55.3	65.3	65.5	45.5	65.3	55.3	65.3	65.3	65.7
≥ #000	57.3	67.7	65.7	69.3	69.3	49.3	69.3	69.3	69.3	60.3	69.3	69.3	59.3	67.3	69.3	64.2
≥ 7000 ≥ 6000	360 <b>.7</b> G2•7	67.7	67.C	69.3	69.3	69.3	69.3	69.3	69.3	69.3	69.3	69.3	69.3	69.3	67.3	69.5
≥ 5000 ≥ 4500	12.5	15.0	71.5	71.3	71.7	71.2	71.7	71.7	71.7	71.3	71.7	71.7	71.3	71.7	71.7	71.3
≥ 4000 ≥ 3500	3.7	72.7		74.3	76.0	74.7 76.0	74.7	74.7		74.7	74.7	76.1.	76.0	70.0	74.7	74.7 76.0
≥ 3000 ≥ 2500	00 0 3	79.5	76.7	77.0	81.7	17.3	77.3	27.3	31.7	77.3 81.7	77.3	31.7	77.3	77.3	61.7	8 7
≥ 2000 ≥ 1800	72.00	75.3	35.3 86.7	97.3	56.3	87.7	96.3 87.7	97.7	87.7	86.3	87.7	87.7	87.7	87.7	87.7	67.7
≥ 1500 ≥ 1200	78.1	91.7	96.3	93.3	93.7	73.7	93.7	97.7	93.7	93.7	53.7	97.7	93.7	23.7	93.7	97.7
≥ 1000 ≥ 900	72.7	95.7	97.3	98.3	98.7	98.7	98.7	99.7	96.7	99.	99.7	99.7	49.0	99.7	99.0	99.5
≥ #00	62.7	95.7	97.3	98.3	98.7	98.7	98.7	36.7	98.7	99.1	99.7	99.3	99.0		99.0	99.0
≥ 700 ≥ 400	2.7	95.7	97.3	98.7	99.1	39.D	99.0	39.7	99.0	99.5	79.3	99.3	40.7	79.3	Ç0. ?	99.7
≥ 500 ≥ 400	2.7	95.7	97.3	96.7	99.0	49.3	99.0	99.C	99.0	99.7	59.7	29.7	25.7	39.7	99.7	99.7
≥ 300 ≥ 200	-2.7	95.7	97.3		30.	79.G	99.0	99.0	\$9.0		100.0	100.C		1 C D . D		102.0
≥ 100 ≥ 0	12.7	95.7	97.3	98.7	40.0	99.0	99.0 99.0	99.0	-	100.0	1					

TOTAL NUMBER OF OBSERVATIONS

DIRNAVOCEANMET

C

≥ 6

≥ 10

#### **CEILING VERSUS VISIBILITY**

97701 BALLAS, TX

CEILING (PEET)

≥ 14000

≥ 12000

6000 5000

73-92

#### PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

67.3

73.0

67.

49.7

73.0 73.0 73.0

73.0

75.0

75.3 75.3 73.

70.3 70.3

VISIBILITY (STATUTE MILES) ≥ 1% 57.3 67.3 67. 67.3 67.3 67.3 61, 69.9 69.0 69.3 69.3 70.3 70.3 70.3 70.3 73.0 73.0 73. 73.0 73.0 75.0 75.0 73.0 73.0 75.4 75. 3 74.3 75.3 75. 75.3 75.3 76.0 76.0 75.3 75.3 75.3 

≥	3500	1.3	75.5	85.0	F5.5	46 . C	66.17	86.	85 ei	85.0	86.1	身际。	85.0	56. C	86.0	36.	3 4
≥	3000	16.3	1 - 3	92.0	92.0	92.0	72.D	45.0	92.0	92.	92.0	92.0	92.0	72.0	92.0	3.7.	52.c
≥	2500	77.7	95.0	44.3	-4.3	94.3	O4 . 3	74.3	24.3	94.7	4.5	94,3	94.3	54. T	94.5	94.3	34 . 3
_≥	2000		75.0	96.3	\$6.3	96.3	-6.3	96.7	36.7	96.7	76.7	46.7	96.7	36.7	96.7	96.7	56.7
≥	1800	70.00	95.7	97.	97.0	97.0	97.C	97.3	57.3	97.3	97.3	97.3	33.3	97.3	77.3	97, 1	97.3
≥	1500	71.7	47.0	96.3	29.3	98.3	¥8.3	92.7	65.7	98.7	3€.7	94.7	48.7	4 4 7	93.7	98.7	95.7
≥	1200	71.	97.7	90.0	95.0	99.0	3.0 .	99.3	09.3	09.3	34.3	99.3	79.3	99.3	99.3	49.3	99.3
≥	1000	71.3	08.0	99.3	99.3	99.3	39.3	99.7	\$9.7	99.7	99.7	99.7	99.7	90.7	59.7	20.7	89.7
`	900	91.3	98.0	99.3	39.3	94.3	90.3	99.7	99.7	39.7	99.7	99.7	99.7	99.7	99.7	79.7	29.7
≥	800	71.5	98.0	97.3	69.3	99.3	39.3	39.7	44.7	99.7	79.7	99.7	99.7	99.7	79.7	99.7	20.7
	700	71.3	48.7	90.3	74.3	99.3	49.3	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	39.7	49.7
≥	600	21.3	28.0	99.3	99.7	99.7	79.7	100.0	100.0	100.3	100.	ະກວ.ວ	100.0	(C) • C	107.0	143.0	100.0
2	500	1.3	78.7	90.3	99.7	99.7	79.7	100.0	170.0	130.0	100.0	100.0	100.0	100.0	100.0	200.7	300.0
_≥	400	71.5	78.7	99.3	99.7	99,7	·9.7	100.0	100.0	ព្រហ្មព្	100.0	100.0	0.001	100 • D	100.0	1.0.0	100.0
≥	300	11.5	38.0	99.3	29.7	99.7	9.7	100.0	100.0	100.0	100.0	160.0	100.0	100.0	100-0	100.0	100.0
2	200	11.3	* 8	93.3	99.7	93.7	.9.7	3 20.0	00.0	100.0	133.0	107.0	100.3	00.0	00.0	103.0	186.0
_≥	100	1.3	98.00	99.3	94.7	49.7	79.7	30.3	100.0	100.0	172.0	100	120.0	160.0	150.0	100.0	132.0
2	•	~1 • 3	98.0	99.3	99.7	79.7	59.7	100.0	175.0	100.1	100.0	ion.o	100.0	0.0	100.0	137.0	100.0
	_																
											T	OTAL NUM	UBER OF O	BSERVATIO	M\$		1,0

DIRNAVOCEANMET

### **CEILING VERSUS VISIBILITY**

# PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING							VIS	HBILITY (ST	ATUTE MIL	ES)						
(FEET)	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2%	≥ 2	≥ 1%	≥ 1%	2 1	≥ %	≥ %	≥ %	≥ 5/16	≥ ¼	≥ ງ
NO CEILING ≥ 20000	54.7	1 _	39.3 75.0	59.3 70.0	57.3 70.0	70.0	50.3 70.0	50.3 70.0	70.0	59.3 70.0	50.5 70.5	59.3	57.5 79.0	59.8 70.0		71.00
≥ 10000 ≥ 16000	59.1	69.7	7 1.0		70.0	77.h	70.0	70.0	70.0	70.0	70.0 70.0	70.0	70.0	75.5	70.0	
≥ 14000 ≥ 12000	71.03		¥0.3	71.3		73.3	77.3		70.3	7 3	77.3	70.3	70.3			70.7
≥ 10000 ≥ 9000	75.00	75.7	74.0	76.0		76.0	76.0 76.0	76 • D	76.7	76.0 75.0	76.7	76.0 76.0	76.3	76.0	76.7	
≥ 8000 ≥ 7000	77.	78.0	79.0			75.3	78.0		78.0	78.0		78.3	74.0	78.0		73
≥ 4000 ≥ 5000	17.7	78.	73.7	74.7 81.7	72.7	78.7	77.7	78.7	75.7	78.7 31.7	76.7	78.7	75.7	78.7	78.7	
≥ 4500 ≥ 4000	3	24.7	91.3	85.0	85.3 90.7	45. T	A5 . 3	75.3	35.3	65.3	85.3	55.3 PO.7	85 .3 93 .7	e5.3	25.3	65.7
≥ 3500 > 3000	14.1	24.3	34.7	44.7	95.7	75.0	95.0	95.0	36.0	95.7	95.0	98.0	35.0 96.0	75.0 76.0	95.6	≎5.5
≥ 2500 ≥ 2000	5.	75. ¥	95.7	97.7		۶7.5 ده. د	97.0	07.0	99.0	97.0	97.3	98.1	97.0	97.F	98.0	
≥ 1800 ≥ 1500	6.	7.3	97.7	07.7	99.5	78 • Ü	99.0	0.39	93.7 99.0	98.0 39.0	98	95.	99.0	78.5	98.	98.5
≥ 1200 ≥ 1000	5.7	-8.1 V8.3	99.	39.0	99.3	9.3	99.7	79.3	99.3	79.3			50.3	19.3	99.7	99.7
≥ 900 ≥ 900	97.0	\$8.7		99.7	1000	100.0	100.0	100.0	100.7	102.3	100.0	100.0	130.0	0000	100.9	<u> </u>
≥ 700 ≥ 600	77.	98.7	99.7	79.7	100.5		00.0	100.0	100.7		00.0	130.3	100.0	10.3	100.0	20.0
≥ 500 ≥ 400	7.1	78.7	99.7	09.7	100.9		100.0	170.0	100.0	100.0 100.0	100.0	100.3	107.9		136.0	100.0
≥ 300 ≥ 200	57.0	98.7	90.7	,				100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	173.0
≥ 100 ≥ 0	27.0	98.7	90.7		102.0			107.0 100.0								

				_
 MILLIANDER	-	BUATIONS	3	-

## **CEILING VERSUS VISIBILITY**

# PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

18

CEILING							VIS	BILITY (ST	ATUTE MIL	£\$)						
(FEET)	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2%	≥ 2	≥ 114	≥ 1%	≥ 1	≥ %	≥ %	≥ %	≥ 5/16	≥ ¼	≥ 0
NO CEILING ≥ 20000	/1.0	73.3	7 . 7	75.3	73.3	73.3	73.3	73.3	73.3 84.7	73.3	73.3	77.3	77.3	730.	13.3	71.3
≥ 18000 ≥ 16000	3 7	64.7 85.0	84.7	94.7 95.0	84.7 85.7	64.7	84.7	84.7 85.0	45.7	94.7	84.7	84.7 55.0	84.7	54 . 7 55 . 3	84.7	84.7
≥ 14000 ≥ 12000	3.00	65.3 87.0	87.0	67.5	85.3	25.3	85.3	85.3	45.3	85.3	85.3	85.3 87.0	57.3	25.3	85.3	87.0
≥ 10000 ≥ 9000	53.7	92.0	72.3	92.0	92.0	°2.1	92.3	92.3	92.5	92.0	32.7	92.1	07.3	92.0	72.7	92.0
≥ 8000 ≥ 7000	71.3	73.7	93.7	94.0	93.7	>3.7	93.7	73.7	93.7	93.7	94.0	93.7	53.7 64.0	94.	94.	93.7
≥ 4000 ≥ 5000	1.7	75.3		94.3	94.3	94.3	94.3	75.3	94.3	94.3	94.3	94.3	94.3	94.3	74.3	24.3
≥ 4500 ≥ 4000		96.0	91.00	96.3	96.0	96.E	96.0	96.0	97.0	96 • 0	96.G	97.0	95.0	96.5	96.C	96.0
≥ 3500 ≥ 3000	5.7	98.0	98.0	93.0	98.7	98.7	98.7	98.7	96.0	96.7	99.7	98.0	98.7	98.0	98.7 98.7	93.7
≥ 2500 ≥ 2000	75.7	8.7	98.7	94.7	98.7	78.7	99.7	98.7	98.7	98.7	99.7	98.7	79.7	99.7	99.7	95.7
≥ 1800 ≥ 1500	16.3	49.7	99.3	99.3	99.7	10.7	74.7 100.0		99.7	99.7	- 1	59.7 100.0	99.7	39.7	99.7	
≥ 1200 ≥ 1000	6.3	99.7	99.7	99.7	99.7		100.0	(		190.0 190.0		150.5	130.0 100.0	0.001	100.3	
≥ 900 ≥ 800	96.3	39.7	94.7	99.7	99.7			100.0		100.0		100.0	0.00.0		100.0	190.5
≥ 700 ≥ 600	10.3	79.7	97.7	99.7	99.7	1 0.0		130.0	100.0	190.0		199.8 109.8		100.0 100.0		100.0
≥ 500 ≥ 400	90.3 76.3	39.7	90.7	99.7	39.7	• • • • • •		100.7		100.0	100.0	100.0 100.0	0.001		100.0	100.U
≥ 300 ≥ 200	16.3	99.7	99.7	99.7	99.7			100.0		100.0		100.0			100.0	
≥ 100 ≥ 0	76.3 5.3	29.7		99.7	99.7			1	•	130.0 130.0				100.0		

OTAL	MUMBER	OF	OBSERVATIONS	:	:	J
OTAL	NUMBER	OF	OBSERVATIONS	:	Ċ	

## **CEILING VERSUS VISIBILITY**

SALLAS, TH

77-27

# PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING										.ES)	\$)							
(FEET)	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 21/2	≥ 2	≥ 1%	≥ 1%	≥ 1	≥ %	≥ %	≥ %	≥ 5/16	≥ %	≥ 0		
NO CEILING	3.7	75.3	75.3	75.3	75.8	75.3	75.3	75.3	75.3	75.3	75.3	75.3	77.8	75.3	75.2	75.0		
≥ 20000	13.3	45.	85.0	95.0	85.7	35.€	A5.0	95.7	55.	85.0	55.0	85.0	35.2	65.0	35.6	65.		
≥ 18000	-3.3	45.7	\$5.C	£5.0	#5 · 7	25.0	85.0	35.C	#5 • î	95.0	84.0	75.0	4 6 6 M	45.D	85.0	85.0		
≥ 16000	* 7 . 3	35.0	85.7	65.C	25.7	45.0	85.0	85.0	es."	25.0	95.3	*5.0	65.0	(5.7)	85.0	85.6		
≥ 14000	3.7	55.3	\$5.3	85.3	P5.3	5.3	35.3	*5.3	85.3	85.3	8	25.3	25.3	85.3	85.3	25.3		
≥ 12000	,4 . 3	\$6.3	86.3	88.3	90.3	1.6.3	86.3	26.3	36.3	86.3	86.3	66.3	64.3	96.3	46.3	85.		
≥ 10000	7.7	89.7	89.7	19.7	87.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	20.7	69.7	99.7	89.7		
≥ 9000	58.7	30.5	90.0	90.0	90.0	20.0	90.0	3.00	70.0	20.0		90.0	97.0	90.0	94.0	91.0		
≥ 8000	30.7	91.0	91.7	91.0	91.7	91.0	91.0	91.0	71.0	91.0	91.0	91.0	91.7	91.0	91."	71.		
≥ 7000	33.5	91.3	91.3	91.3	91.2	91.3	91.3	91.3	91.	71.3	91.3	91.3	41.3	71.1	71.3	01.5		
≥ 6000	∵û•3	42.7	92.7	92.7	92.7	32.7	92.7	92.7	92.7	92.7	92.7	72.7	92.7	72.7	97.7			
≥ 5000	70.3	73.3	83.0	43.0	93.7	75.2	97.0	13.0	93.7	23.7		93.7	23.5	93.5	42.0			
≥ 4500	1.7	\$4.3	94.3	94.3	74 . 3	24.3	94.3	94.3	24.8	94.3		04.3	74.3	34.3	94.3			
≥ 4000	: 3.7	77.5	97.0	97.5	97.1	97.C	97.0	•7.J	97.0	97.	97.0	97.3	97.0	97.0	97.5	97.0		
≥ 3500	34.3	27.7	97.7	97.7	97.7	97.7	97.7	37.7	67.7	97,7	- 1	37.7	97.7	97.7	97.7	97.7		
≥ 3000	- 10 0	48 e	90.0	04.7	78.0	68.0	98.5	es.n	98.0	98.3	68.0	93.0	35.0	94.7	94.	34.		
≥ 2500	4 . 7	75.7	9 . 3	78.3	98 • 3	58.3	98.3	98.3	98.3	98.3	78 . 3	33.3	34.3	96.3	98.	9803		
≥ 2000	13.	19.	97,"	59.0	99.6	79.0	90.13	99.5	¥6.7	99.0	79.3	99.0	20.	99.6	99.	<b>99.</b> (1		
≥ 1800	5 . 3	40.5	37.7	29.0	\$9.0	9.0	79.0	09.0	43.0	94.0	99.7	30.5	79.5	99.5	90.	99.		
≥ 1500	3	79.3	93.8	U9.3	39.3	60.3	79.3	20.3	49.8	49.3	33.3	79.3	¥9. T	79.3	59.1	¥ ? • ·		
≥ 1200	5 • 3	9.3	36.3	64.3	39.5	99.3	30.3	99.3	67.3	99.	96.7	9.3	\$ 0 <b>.</b> 3	99.3	79.7			
≥ 1000	.5. 1	~4.3	37.3	09.3	99.3	79.3	99.3	79.3	77.8	79.3	90.5	99.3	77.3	09.3	49.3	000		
≥ 900	5.9	00.3	99.9	00.3	99.	19.3	G . 3		99.	59.3	96.3	09.3	97.3		99.	63.3		
≥ \$00	. 4 . 3	9.3	97.3	29.3	99.3	79.	7.7	39.7	69.7	09.7	99.7	99.7	40.7	59.7	79.7	99.7		
≥ 700	75.3	\$ 9 . 3	33.3	77.3	99.5	.00.3	7.	94.7	19.7	99.7	99.7	49.7	49.7	99.1	99.7			
≥ 400	75.3	39.3	39.3	09.3	39.3	79.3	99.7	20.7	99.7	96.7	99.7	99.7		99.7	59.7	99.7		
≥ 500	5.	9.9	97.3	99.3	97.3	3.3	39.7	20.7	39.7	99.7	99.7	79.7	99.7	99.7	F9.7	V9.7		
≥ 400	5.3	39.3	99.7	99.7	99.7					100.0				100.0		170.0		
≥ 300	95.8	39.3	99.7	49.7	99.7	79.7		100.0						0.001		{		
≥ 200	75.3	99.3	99.7	99.7	79.7					100.5								
≥ 100	5 . 3	99.3		23.7	99.7	* 1				133.0								
≥ 0	75.3	79.5	99.7	99.7	97.7		1 30 • C	10.0	100.0	170.0	100.0	100.0	JUOU	100.0	130.0	162-0		

TOTAL NUMBER OF OBSERVATIONS

DIRNAVOCEANMET

#### **CEILING VERSUS VISIBILITY**

# PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING	VISIBILITY (STATUTE MILES)															
(FEET)	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 21%	≥ 2	≥ 1%	≥ 1%	≥ 1	≥ %	≥ %	≥ 4	≥ 5/14	≥ ¼	≥ 0
NO CEILING	01.1				6".0			3							65.7	4. *
≥ 20000	÷ 5 • 7	72.7	73.2	73.6			73.5	73.8	73.9	73.P		7.03	77.8	73.0	13.0	73.9
≥ 18000	37.7			73.5			73.8	,		1	• • •	13.9	_	1	73.6	
≥ 16000	A C . 7	72.4	73.3	73.7	73.0	73.0	73,9	77.9	73.4	73.9	73.7	73.9	73.9	73.9	73.9	7:07
≥ 14000		73.3	73.8	74.2	74.4	74.4	74.4	74.4	74.4	74.4	74.4	74.4	-4.4	74.4	74.5	74.3
≥ 12000	11.1	74.3	74.7	75.2	75.4	75.4	75.4	75.4	73.4	75.8	75.4	75 . 4	75.4	75.4	75.5	75.5
≥ 10000	74.7	78.1	75.7	79.1	79.3	79.3	79.3	79.3	79.8	79.3	79.3	79.3	70.3	79.5	79.3	74 . 3
≥ 9000	75.0	78.5	79.5	77.4	77.6	79.5	79.5	79.6	79.4	79.6	79.€	79.5	70.5	79.6	79.7	79.7
≥ 8000	77.4	Ales	41.5	23.9	92.1	42.1	87.1	92.1	62.1	82.1	32.1	52.1	42.1	92.1	32.2	£
≥ 7000	**	31.7	61.7	82.1	92.3	32.3	52.3	42.3	62.3	82.3	22.3	92.3	87.3	72.3	17.4	F . 4
≥ 6000	13	31.6	82.2	22.7	32.0	22.9	82.9	32.9	A2.9	92.9	82.9	92.9	87.9	67.9	82.9	92.9
≥ 5000	74.	92.9	83.5	#4 . D	24 . 2	4.2	34.2	94.2	84.2	34.2	84.2	34.2	84.7	54.2	24.2	84.2
≥ 4500	36.0			85.2		25.5						85.5				35.5
≥ 4000	2.0	4.5	87.2	97.7		68.0	84.0	46.5	88.0	50.3	88.0	84.0	2 A . D	88.1	68.7	A8.0
≥ 3500	3.6	. 4 . 2	80.0	p0.3		99.6		69.6		87.6	89.6	29.6	60.5	89.6	84.7	
≥ 3000	45.1	89.4		- "		~1.9				91.4		\$1.4	41.4	91.4		91.5
≥ 2500	.6.3	31.3		72.6				<del></del>				97.9			23.	5 5 6
≥ 2000	7				- 1					25	95.7	ବ୍ୟ ତ	72.0		1	95.
≥ 1800	7.0	93.4		74.9		25.3	95.3					95.3	7.5, 3	98.3	75.3	
≥ 1500		95.4								1 1		07.4	97.4			
	37.1	06.2		97.4		28.3	99.3			42.3		93.3	98.3	98.3		
≥ 1200 ≥ 1000	70	76.9			7 1			1	45.0	96.	9 . 9	33.9	0,0	98.4		98.9
<del></del>	7.6					C9.9					50.7		23.7			99.0
≥ 900 ≥ 800	7	77.0				9.1	20.2			- "(					1	
	16.3	67.1		96.3		79.5						79.				09.4
≥ 700 > <b>60</b> 0	20.2	97.3		79.0				1				09.7			79.7	34.7
		77.3														
> 500 > 400	7.1.7		94.3	29.1	-	30.4		1			- 1		30.8	1 1	, .	
≥ 400		97.3	90.3	44.1	99.5		99.7	79.8		99.3	53.9	39.9	00.0		120.0	
≥ 300	100	97.3	98.	44.1	99.4	79.6	99.7	99.5		105.0						
≥ 200		57.5	76.5	45.1	99.5	79.6	99.7	79.2				105.3		100.0		123.0
≥ 100	. • 7		25.	04.1		17.6		1 .		100.0						
> 0		97.5	93.5	79.1	39.5	?* . 6	99.7	79.8	99.5	ום בכי גו	ומ. ככנ	100-0		1 0 C • C'	0.00	130 a Si

TOTAL NUMBER OF OBSERVATIONS

### **CEILING VERSUS VISIBILITY**

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

(FEET)		LING VISIBILITY (STATUTE MILES)													1	
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 21%	≥ 2	≥ 1%	≥ 1%	≥ 1	≥ %	≥ %	≥ %	≥ 5/14	≥ ¼	≥ 0
NO CEILING ≥ 20000	1	5.9	84.7	50.7	85.7	76.7	90.6	97.1	83.4 87.1	60.6 87.1	80.6 67.1	87.1	87.1	50.6 67.1	27.1	27.0
≥ 18000 ≥ 14000	¥ 17	5.8	85.7	25.7	86.7	£6.7	87.1	87.1	87.1	87.1 57.1	87.1	3 7 . 1 6 7 . 1	67.1 87.1	87.1	67.1 57.1	97.1
≥ 14000	4.5 8	3.8	85.7	95.7	86.7	36.7 0.C	97.1	87.1	87.1	37.1	87.1	87.1	9 1 3	27.1	57.1	E 7 . 1
≥ 10000	OLON O	3.5	73.3	94.5	93.9	93.9	94.2	74.2	94.5	94.2	94.5	94.3	94.3	C4 . 2	94.7	94.3
	94.2 S	5.5	96.4	96.4	96.4 97.1	76.4 97.1	96.4	76.8 97.4	96.4	76.3 37.4	46.3	96.3	94.9 94.8	96 - 9 97 - 4	96.0	96.8
≥ 6000	14.1 3	6.1	97.1	97.1	97.1 90.0	57.1	97.4	77.4	97.4	97.4	97.4	97.4	27.4	97.4	77.4	97.4
≥ 4500	Ve . 4 0	8.1	99.0	79.0	90.0	79.0	99.4	77.4	99.4 99.4	99.4	29.4	99.4	70.4 70.4	09.4	29.4	
≥ 3500	46.4 F	8.1	97.0	99.0	90.0	79.0	99.4	79.4	79.8 79.8	77.4	59.4	99.4	<0.4	79.4 C9.4	99.4 99.4	99.4
≥ 3000 ≥ 2500 ≥ 2000	.A. 4 2	8.1	99.6	09.0	99.0	9.0	99.4	39.4	39.4	79.4	39.4	79.4	49.4	99.4 99.4	99.4	
≥ 1800 ≥ 1500	5.4 3	8.1	97.4	99.5	99.	29.4	99.4	77.4	99.7	99.4	97.5	39.4	< 7 - 4	79.4 99.7	99.4	
≥ 1200	.6.4	8.4	99.4	59.4	99.4	29.4	99.7	09.7	79.7	99.7	99.7	\$7.7	10.7	99.7	99.7	₹ <b>0</b> 0
≥ 1000 ≥ 900 ≥ 800	· t • 4 3	8.4	97.4	59.4	79.4	99.4	99.7	99.7	39.7	39.7	99.7	99.7	39.7 39.7	79.7	99.7 99.7	
≥ 700	1004 0	R . B	07.4	09.4	99.4	9.4	99.7	99.7	99.7	79.7	90.7	79.7	37.7	99.7	99.7	- 1
≥ 400 ≥ 500 ≥ 400	5.4	2.4	99.4	99.4	99.4	99.4	99.7	39.7	99.7	99.7	99.7	99.7	59.7	39.7	39.7	79.7
≥ 300	15.8 0	6.4	99.4	99.4	99.4	79.4	99.7	99.7		160.0				1 00 . n		
≥ 200 ≥ 100 ≥ 0	16.4 4	5.4	99.4	99.4	99.4	9.4 9.4	99.7	69.7		130.0	100.0	100.0	100.0		100.0	100.0

300 TOTAL NUMBER OF OBSERVATIONS

DIRNAVOCEANMET

### **CEILING VERSUS VISIBILITY**

PERCENTAGE FREQUENCY OF OCCURRENCE

(FROM HOURLY OBSERVATIONS)

				<del>`</del>												
CEILING (FEET)								IBILITY (ST	ATUIR MIL	==== <del>-</del>						
(,	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 21/4	≥ 2	≥ 1%	≥ 1%	≥ 1	≥ %	≥ %	≥ %	≥ 5/16	≥ ¼	≥ 0
NO CEILING ≥ 20000	50.1	77.7		76.4 83.2	. 1	75.4	7 . 7		- 1	76.7	- 1	76.7	75.7		73.7	70.7
≥ 18000 ≥ 16000	7	વે <b>.</b> ક	33.7	5.2	33.6	-3.c.	53.7	23.0	75.0	85.9	67.9	83.9	64.0		87.9	83.9
≥ 14000 ≥ 12000	3	92.5	\$3.2	23.2 25.1	97.6 86.5	-3.0	33.9	33.0	A 3 . "	43.9	85.0	35.4	63.0	43.0	37.4	87.0
≥ 10000 ≥ 9000	1 ti	1.3	31.9	21.9	92.5	92.5	92.6 33.6	9.00	33.6	72.t	92.6	72.5	92.6	92.6	97.6	92.6
≥ 8000 ≥ 7000	1.5	3.9	74.5	94.5	94.8	94.5	95.2	65.2	45.2	93.2		75.2 75.8	35.2	95.2 95.2	95.2 55.8	2.00
≥ 6000 ≥ 5000	77.1	64.3	95.2	25.2	25.5	5.5	44.8	75.8	95.9	95.8	95.4	94.8	95.9	95.6	\$5.0	95.5
≥ 4500 ≥ 4000	13.2	- 4. H	96.1	70.5	95.8	26.3	96.5	27.1	97.1	97.1	97.1	96.	07.1	57.1		37.1
≥ 3500 ≥ 3000	3.7	05.5	90.1	96.5	96.8	26.3	97.1	97.1	97.1	97.1	97.1	57.1	97.1		97.1	97.1
≥ 2500 ≥ 2000	3.4	6.1	97.4	07.7	98.1	37.4	97.7	79.4	93.4	97.7	55.4	94.4	00.4	38.4	08.6	20.4
≥ 1800	14.5	·7·1	94.1	98.4	98.7	78.7	29.7	29.3	79.0	49.0	98.7	49.0	99.0	39.0	39.5	90.
≥ 1200	75.3	28 · 1	95.7	79.0	99.4	19.4	59.7	79.7	99.7	- (	99.7	99.7	25.7	99.7	9.7	63.1
≥ 1000 ≥ 900	55.7	98.1	98.7	99.0	99.4	79.4	\$9.7	39.7	79.7		79.7	99.7	90.7	09.7	99.7	20.
≥ 800 ≥ 700	25.2	<u>ె0.;</u> 58.;	93.7	79.0	97.4	79.4	79.7	99.7	39.7	79.7	99.7	99.7	59.7		99.7	99.7
≥ 400 ≥ 500	35.2 75.2	78.1 78.1		99.0	97.4	79.4	99.7	29.7	99.7		99.7	39.7	74.7 59.7			39.7
≥ 400 ≥ 300	35.2 35.2	30.1		50.1	99.4	19.4	99.7	99.7		99.7		99.7		99.7	99.7 100.0	
≥ 200 ≥ 100	5.2	18.1 78.1		74.7	99.4	79.4	39.7	99.7							100.0	
≥ 0	25.2	38.1	97,7	99.0	79.0	19.4	99.7	\$9.7	- 1	- 1	- 1		- 1		100.3	


DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NO

1.1

04:500; 10

### **CEILING VERSUS VISIBILITY**

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING														]		
(FEET)	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 21/9	≥ 2	≥ 1%	≥ 1%	≥ 1	≥ ¾	≥ %	≥ %	≥ 5/16	≥ ¼	≥ 0
NO CEILING ≥ 20000	4.7	71.3	7/.2	7.3	75.8	75.3	1	70.3 75.8	70.3	70.5 75.8	75.8	70.3 75.4	7 . F	70 • 2 75 • 8	75.2	
≥ 18000 ≥ 16000	4.3	71.9	73.9	75.8 75.8	76.5	76.5	76.5	75.5 75.5	75.5	76.5 76.5	75.5 76.1	76.5	76.5	76.5 75.5	76.5	7
≥ 14000 ≥ 12000	5.00 5.00	72.5	74.8	1	77.4	77.4	77.4	77.4	77.4			77.4	77.4 30.0		77.4	
≥ 10000 ≥ 9000	3.6	3.7	84.5	10.5	87.1 87.7	77.1 47.7	57.1 67.7	37.1 57.7	37.1 57.7	27.1 17.7	1	27.1	7.1 57.7		67.3	. 1
≥ \$000 ≥ 7000	7-5	A7.1	80.0	91.0 91.5	91.0	1.6	91.5	71.6 93.9	91.4	91.6		91.6	1		21.5 91.3	91.5
≥ 6000 ≥ 5000	7 7	18.4	9.3	91.3	71.9	,1.9 52.9	92.9	92.9	91.4	91.9		91.7	71.0	31.0		51.0
≥ 4500 ≥ 4000	70.7	4d. 7	91.5	77.6 73.6	34.2	43.2	93.0	1	98.6 94.6	33.3 34.6		57. V	24.0	73.0°	36.3	1
≥ 3500 ≥ 3000	- 3•3 3•4	ະຍ•ດ ດ•ດ•	91.9	9 . <b>9</b>	94.5	44.5	94.3	04 · R	64°c	95.2	[	95.2 95.2	< 4.7	95.2	45.0 68.7	
≥ 2500 ≥ 2000		70.0 02.0	31.5 31.5	03.0	20.3	4 . 5	94.8	35.3	95.2 95.2	75.5 95.5	90.5	9 - • 5		15.5 15.5	55.5	7.
≥ 1800 ≥ 1500		75.7 71.6	93.9		96 . 1	76.5	94.8 96.5		95.2	97.3	97.1	17.1	77.1	.7.1	99.5 97.1	37.
≥ 1200 ≥ 1000	1.4	ः <b>१ - व</b> ः २ - ध	93.9	6.5	97.1	7.4	97.7	38.1	25.1	97.7 98.4	96.4	1. 4		2.4	75.4	25.7
≥ 900 ≥ 800	1.4	02.9	94.8	96.8	97.4	07.7	90.1	16.4	99.4 99.4				52.7 42.7	73.7		7.
≥ 700 ≥ 600	1.4	73.2	94.8	77.4	97.7	18.1	99.4		49.0	1	99.1 99.8		77.4	23.4	60.4	00.0
≥ 500 ≥ 400	1.5	93.6	95.5			08.4 ^8.7	99.0	79.4	79.4	74.7	\$9.7	79.4		29.7	99.4 99.7	46.7
≥ 300 ≥ 200	11.0		95.5	97.7		18.7		99.4	79.4	39.7	101.0 107.0	100.3	100.3	179.U	188.9 168.9	13700
≥ 100 ≥ 0	1.4€	3.4 3.6	95.5	- 1	98.4	^8 • 7 48 • 7	99.	79.4	37.4		1 7.5 1.7.5				177.0	

OTAL	NUMBER	OF	OBSERVATIONS	 <u>:</u>		

DIRNAVOCEANMET SMOS

1 4

### **CEILING VERSUS VISIBILITY**

#### PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING	VISIBILITY (STATUTE MILES)															
(FEET)	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2%	≥ 2	≥ 114	≥ 1%	≥ 1	≥ ¥	≥ %	≥ %	≥ 5/16	≥	≥ 0
NO CEILING ≥ 20000	3 7 a 1		77.4 77.4		73.2	78.7	73.0	73.6	75.4	73.0	77.7	77.5	77.6		77.1	
≥ 18000 ≥ 16000	7.02	75 . s	77.7	77.7	74.4	77	77.4	74.5	7.00	7:0.	77.5	77.4	79.4	73.4	70.	74
≥ 14000 ≥ 12000	74.4	75.5	71.1	7/.1	74.7	100	79.4	79.4	77.6	70.6	70.6	73.4	17.4	70.4	77.4	73.6
≥ 10000 ≥ 9000	7 - • ** 7 : • 7	28.9 50.5	85.2 85.8	35.2	35.1 85.5	5 . 5 . 7 . 4	66.3	36.3	47.4		-	67.4	37.4	16.0	4 6 . · · · · · · · · · · · · · · · · · ·	7
≥ 8000 ≥ 7000	1.0	.6.5 84.4	97.7 53.3	53.1 38.4	30.0	9.7	89.7	49.7 90.7	92.7 24.0	89.7	57.7	e . 7	25.7	49.70	<u>ξα.</u> φ	5 T . 1
≥ 6000 ≥ 5000	3.7	36.4	81.1	ńπ.u	20. u	52.J 1.9	ემ.ე 91.0	10.0 11.9	1.0 0.0	91.9	50.5 91.0	71.9	-(1.eP	1.5	.0.	21.0
≥ 4500 ≥ 4000	3.4	39.	9 .	50.3	91.6	2.5	97.5	57.6	70.3 22.6	71.5 70.6	92.5 90.6	72.3	. 5	12.5 14.60	97.3 53.6	• .
≥ 3500 ≥ 3000	4. T	57.4	97.7	91.5 91.3	93.3 53.6	3.2	92.9	03.2	33.2	97.4 53.6	47.0	93.3	7.7 ×3.2	V.) • € V.) • ¢	93.5	• /
≥ 2500 ≥ 2000	4.	91.5	97.9	97.3 97.9	94.2	4.2	99.3	94.5 95.2	98.5 95.7	•4•:	94.5 95.3	94.5	74.5 77.2	34 . ( 25 . )	74.5 75.7	~
≥ 1800 ≥ 1500	6 • 1 7 • 7	91.4	97.5	73.4	97.1	7.7	95.5 93.1	15.5 58.1	93.8	95.5	95.5	65.0 90.1	0.4	75.45 73.43	35.4	3
≥ 1200 ≥ 1000	7.7	94.5 94.8	94.1	75.5	97.7 94.1	ુ6. • ક. 7	37.7 50.0	76.7	92.7 20.7	9 A . 7	30.7	40.7. 34.0	7	7.00	92.7	79.07
≥ 900 ≥ 800	د ه د ع	24.3	90.5	97.1	01.4	9.7	70.4	9.4	00.4	79.1 99.4	40.6			13.6	23.7 24.4	45.4
≥ 700 ≥ 600	1.1	25.7 25.5	34.7	37.1 57.4	95.4	9.4	99.1	79.4	्ष. प्रकृष	- 1	- 1	59.4	9.4	२ <b>७.</b> ३	90.4 90.7	00.5 00.7
≥ 500 ≥ 400	-P - 1	75.5 75.5	5 1 7 7 . 1	91.4	99.7	હ <b>્યું</b> ફ	100.0	170.0 100.0	110.5 106.5		190.0 100.0	100.0 100.0	7 7 . n 1 . m . m	1 7. ) 1 0. )	160.0 100.0	1
≥ 300 ≥ 300	9 • 1 2 • 1	5.5	97.1	97.4	95.7	~9 . 4 ~9 . 4	167.5 167.0	100.0 10_0	100.0	170.0 170.0	100.5 100.5	10.0	100.0 100.0	1	105.0 137.0	17.2 • 1
≥ 100 ≥ 0	3 • 1 * • 1	75.5	97.1	07.4 97.4	99.7 0:.7	17.4	. :	1 7 . 0 1 7 . 0	:	193.0 198.0				150.0 150.0	101.0 101.0	155.5 155.5

		_
TOTAL NUMBER O	OBSERVATIONS	1

#### **CEILING VERSUS VISIBILITY**

#### PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

VISIBILITY (STATUTE MILES) CEILING . ≥ 1% ≥ 1% ≥ 1 ≥ % ≥ % ≥ 5/16 ≥ 10 ≥ 6 ≥ 5 NO CEILING ≥ 20000 75.2 7:0 76.2 7 . 3 7500 75. 75. ≥ 18000 ≥ 16000 77.2 ≥ 14000 ≥ 12000 70.7 74.7 71.7 ≥ 10000 ≥ 9000 ÷ 3 • 5 63.6 ≥ 8000 ≥ 7000 ≥ 6000 ≥ 5000 .7.1 4500 4000 \$ 25 . 7 ≥ 3500 ≥ 3000 94. 4 ≥ 2500 ≥ 2000 .0.0 90.4 ≥ 1800 ≥ 1500 70.4 29.4 ) O . 4 ≥ 9 . 1 96.4 20. 3 1000 <u>></u> 99.7 100

TOTAL	MUMBER	OF OBSERVA	TIONS	' 1	

DIRNAVOCEANMET

## **CEILING VERSUS VISIBILITY**

#### PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING	VISIBILITY (STATUTE MILES)															
(FEET)	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2%	≥ 2	≥ 1%	≥ 1%	≥ 1	≥ %	≥ %	≥ %	≥ 5/16	≥ ′•	≥ 0
NO CEILING ≥ 20000		74.3	51.3	51.3		el.3	01.3		61.3	74.2		74.2		61.3	61.2	24.2
≥ 18000 ≥ 16000	73.2	24.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74 . 1	74.5	
≥ 14000 ≥ 12000	73.7	74.5	74.3	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5		74.5
≥ 10000 ≥ 9000	7	31.1	81.0			*1.0	81.0	°1.5	01.0	*1.J	31.7	81.6	91.0	91.0 41.6	61.6	61.6
≥ 8000 ≥ 7000	7 7	23.7	87.7			3.2		7.23	37.7		à		63.9	92.0 53.2	83.2	5.09
≥ 6000 ≥ 5000	103	4.2	84.2	64.2	34.5	38.4	54.5	24 . 5	£4.5		84.5	88.4		84.5	64.5	84.5
≥ 4500 ≥ 4000	:7.7	91.0	91.	71.3	91.6	11.6			91.6		91.6	51.6		91.6	91.5	91.6
≥ 3500 ≥ 3000	1 • •	74.5	94.8	95.8		76.1 76.1	96.1		75.1	96.1	94.1	96.1	94.1	96 . 1 98 . 1	96.1	35.1
≥ 2500 ≥ 2000	4 . 4	77.4		98.4	99.7	78.7	98.7	73.7	24.7 67.0		27.7		59.7	98.7	98.7	
≥ 1800 ≥ 1500	4 . 5	<del></del>	97.7	98.7	99.	49.0	\$9.0	63.0	99.4	34.0	96.0	c9.5	ા≎•૧		99.0	
≥ 1200 > 1000	74 - 5	-		20.0	29.4	79.4	99.4	90.4	99.4	99.4		99.4				49.4
≥ 900 ≥ 800	24.5	27.7 27.7	27.7		99.4	19.4		99.7	40.7	49.7		69.7	99.7	79.7 100.0	99.7	99.7
≥ 700 ≥ 600	34.5	7 7	97.7	99.	99.7	79.7	100.0	170.0	100.0	1 14.4	100.0	າວກຸວ	160.0	100.0	100.3	110.0
≥ 500 ≥ 400	4 . 5	© 7 . 7	97.7	09.	\$9.7		100.0	100.0	100.5	100.0	100.0	100.0	100.0	100.0	160.0	190.0
≥ 300 ≥ 200	4 . 5	27.7	97.7	49.1	79.7		100.0	100.0			100.0		100.0	100.0	100.0	100.0
≥ 100 ≥ 0	4.5	7.7	37.7	89.0	50.7	79.7	167.0	100.0			100.0	ត្រូវ	10 100	100.0	:30.0	100.5

		, , ,
TOTAL NUMBER OF	OBSERVATIONS	•

. . 4

#### **CEILING VERSUS VISIBILITY**

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING							ATUTE MIL	.ES)								
(FEÉT)	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2%	≥ 2	≥ 11/2	≥ 1%	≥ 1	≥ %	≥ %	≥ %	≥ 5/16	≥ ¼	≥ 0
NO CEILING ≥ 20000	7 . 0	84.7	71.9	71.9	71.5	71.7	71.9	71.0 73.2	71.0	l	71.0	71.9 85.2	71.0 55.2	71.7 55.2	71.0	71.7
≥ 18000 ≥ 16000	3.7	54.5	85.2 45.5	45.8	85.2 85.5	3.2	95.2	15.5	85.5		85.2	85.2	65.5	35.2	*5.2	45.2
≥ 14000 ≥ 12000	3.9	55.3	87.7	55.1	85.1 87.7	26.1	86.1	65.1 97.7	58.1 27.7	36.1	95.1	90.1	3/ •1 A7.7	36.1		16.1
≥ 10000 ≥ 9000	36.7	51.9	97.9	93.2 93.2	93.2	53.2	93.2	23.2	93.2 93.2	93.2	93.7 < 7.2	73.2 73.2	77.7	23.2	93.2	93.7
≥ 8000 ≥ 7000	. 7	93.2	94.2	94.5 94.5	94.5	* 4 . 5	94.5	94.5 74.5	94.5	94.5	94.5	94.5	94.5	24 . c	94.5 94.5	04.5
≥ 6000 ≥ 5000	1.3	03.4	95.2	55.2 55.3	95.3	95.2	95.3	45.A	95.2	95.7 95.8	95.5	\$5.2 \$5.5	35.8	95.0	75.2 55.4	95.45
≥ 4500 ≥ 4000	1.4	73.4	95.2	97.1	97.1	23.8	97.1	35.8	95.1	97.1	97.1	27.1	27.1	97.1	95.8	97.01
≥ 3500 ≥ 3000	2.7	95.4	96.1	77.1 98.4	97.1	77.1	97.1	78.4	37.1	95.4	77.1	97.1	97.1	37.1	97.1	\$7.1 95.4
≥ 2500 ≥ 2000	· 2 • )	75.1	97.7	30.7		8.7	98.7	08.7	99.7	95.7	94.7	96. ? 96. }	99.0	99.	99.7	40.
≥ 1800 ≥ 1500	2.9	+6.! • 6.!	94.1	99.0 64.0	99.0	59.0 19.0	79.0	99.0 99.0	49.D		90.0 90.0	99.5	99.D	1	30.7	99.5
≥ 1200 ≥ 1000	112.00 112.00	96.1	95.1	96.0	99.0	79.	99.0	34°C	30.0	84.00 84.00	99.5	99.3	39.4	33.	49.1 79.4	
≥ 900 ≥ 800	7.7	96 . 1	98.1 96.1	39.D	99.	99.0	99.3	94.5 94.4	94.5 94.8	00.4	90 m	୨୭.ଧ	59.7	39.7	-	99.
≥ 700 ≥ <b>6</b> 00	72.9	96.1	29.1 26.1	73.3 49.0	60°U	79.0	99.0	00.4	63.4 63.4	39.4 99.4	99.4	79.4	40.7	49.7	99.7 99.7	69.7
≥ 500 ≥ 400	// s	76.1	38.1	60.3	99.0	ે <b>9.</b> દ ગ9.દ	30.0	79.4	10 m	99.4	30 . u		157.0	מ•מר ב	130.0	100.0
≥ 300 ≥ 200	2.7	55.1 56.1	84.1	49.0	83.1	9.:	99.0	39.4	30.4	39.4	99.4		100.5	10.0	ם•חמו	100.c
≥ 100 ≥ 0	7 . 3	06.1 06.1	98.1	60°C	99.7	99.5	99.0	79.4	99.4		99 . H			100.0 107.0		

TOTAL NUMBER OF OBSERVATIONS 335

## **CEILING VERSUS VISIBILITY**

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING		VISIBILITY (STATUTE MILES)														
(FEET)	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2%	≥ 2	≥ 1%	≥ 1%	≥ 1	≥ %	≥ %	≥ %	≥ 5/16	≥ %	≥ 0
NO CEILING ≥ 20000	70.4	77.2	87.4	45.3		10.5 57.7	80.7 88.1	F17.7	40.7	80.7 55.1	80.7 85.1	32.7	47.7 25.1	30.7 85.1	50.7	8 · • ?
≥ 18000 ≥ 16000	5.7	7.1	A7.4	97.7	67.7 88.1	27.7 25.1	8A.1	48.1	52.1 83.4	85.1 85.4	42.1	38.1	27.1 F6.4	36.1 28.4	48.1	83 . i
≥ 14000 ≥ 12000	6 • 1 7 • 1	33.4	80.7	89.0	80.A	30.0	89.4	89.4	\$ 9 · #	87.4	50.4	89.4	97.4	89.4	29.4	57.4
≥ 10000 ≥ 9000	10.0	12.6	97.0	93.C	93.2	23.2	93.6	27.6	73.A	9.6	93.6	47.6	97.6	93.6	95.5 93.6	93.0
≥ 8000 ≥ 7000	1.3	33.2	94.8	25.2	95.2	75.2	25.5	95.5	94.7 95.6	75.5	95.5	95.3	00.5	35 1	38 . 6	55.5
≥ 4000 ≥ 5000	3 . 0	35.5		95.5	95.5	96.5		96.9	76.1	98 • E	96.1	96.3	96.4	26.8	96.9	90.3
≥ 4500	7.0	36.5		57.1	97.4	47.4		37.7	97.4	97.4	97.4	97.7	67.7	27.7	97.7	07.7
≥ 3500	<b>4 •</b> ∂	77.4	97,7		95.4	78.4	98.7	98.7	58.7 58.7	75.7	93.7	98.7	10.7	76.7		93.7
≥ 2500	-4-3	-	90.1	98.4	98.7	8.7	99.0		35.0	99.4 99.4	99.4	79.4	70.4	29.4	37.4	
≥ 2000 ≥ 1800	1405	27.4	93.1	75.4	91.7	75.7	99.0	9.9	83.0	99.4	- }	49.4	34.0	59.4	99.4	
≥ 1500 ≥ 1200	- 34 <b>-</b> 3	57.4	95.1	98.4	96.7	98.7	99.0	39.3	30.0	63.4	\$9.4	99.4	99.4	27.4	20.4	99.4
≥ 1000 ≥ 900	- 40 g 2	97.4	95.1	28.8		°8.7	99.0	99.0	99.7	99.4	- 1	99.4	99.4	•	99.4	99.4
≥ 800	74 6 °	97.4	95.3	95.4	96.7	98.7	99.0	99.0	79.7	99.4	99.4	77.4	97.4	09.4	\$9.4	99.4
≥ 600 ≥ 500	34.03	37.4	93.4	98.7	95.7	29.0	99.4	29.4	99.4	99.4	99.4	79.7	97.7	99.4	99.1	99.4
≥ 400 ≥ 300	/4 6 8	97.4	93.4 92.4	98.7	99.1	1. er	99.4	09.4			100.0				100.0	
≥ 200 ≥ 100	- 44 a 3	97.4		96.7	99.	9.0	99.4	79.4		103 <b>.3</b>	100.0				100.0	
≥ 0	4,5	47.4	90.4	78.7	99.	79.7	99.4	09.4	99.4	1,000	100.0	162.0	107.0	100.0	מ.סני:	103.6

JATO	NUMBER	Q†	<b>OBSERVATIONS</b>	 	 ١

### **CEILING VERSUS VISIBILITY**

#### PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING							VIS	HOILITY (ST	ATUTE MIL	.ES)						
(FEET)	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2%	≥ 2	≥ 1%	≥ 1%	≥ 1	≥ %	≥ %	≥ %	≥ 5/14	≥ 4	≥ 0
NO CEILING	27.3	72.07	72.7	73.1	73.0	3.3	73.4	3.4	73.4	73.4	77.4	73.4	77.6	73.4		
≥ 20000	77.	79.4	RD•3	£1, 7	87.9	P1.0	31.1	1.1	-1.1	31.1	51.1	81.1	c1 - 1	31.1	41.1	11.1
≥ 18000 ≥ 16000	77.7	79.5	87.5			81.7 31.4	81.4	31.5	ا 4 مان اگرونان	31.5	61.4	81.5	31.5	61.4	91.4	91.4 51.5
ļ	77.7		91.0	01.4	81.7	91.7	81.9	*1.0	31.0	81.0	61.	11.9	11.9	*1.0		
≥ 14000 ≥ 12000	77		63.3	63.7	83.0	24	54.1	4.1	34.1	84.1	84.1	24.1		c4.1	E 4 . 1	44.1
	9.0		48.0	93.4	59.7	58.9	36.0	16.0	÷ 6 . 9	94.9	35.0	85.9		68.0	80.9	0 0
≥ 10000 ≥ 9000	4 . 6	27.8	88.6	89.0	1 1	19.4	89.5	27.5	89.5	9.5	57.5	29.5	30.5		20.	20.5
≥ 8000	35.1	87.1	97.4	8.13		71.7	91.3	71.3	91.3	61.3	91.3	91.3	71.3		31.2	*1.3
≥ 7000	85.3	69.9	90.7	5.10	21.5	41.6	91.7	01.7	41.7	91.7	91.7	31.7	41.7	91.7	91.7	>1.7
≥ 6000	6.7	25.7	91.7	71.3	21.0	\$1.9	77.1	77.1	72.1	72.1	25.1	92.1	-3.1	52.1	32.1	77.1
≥ 5000	>8.6€	73.7	93.5	93.1	93.5	73.5	93.7	7.7	43.7	5.2.7	93.7	73.7	(7.7	03.7	93.7	73.7
≥ 4500	. 2.6	72.3	93.1	23.7	94.1	74.2	94.6	4 . 40	34.4	74.4	94.4	44.4	54.4	74.4	44.4	. a . a
≥ 4000	10 and	. 5 . 4	94.3	<sup>-7</sup> 5•7	97.4	15.5	73.6	25.6	75.04	33.7	9 7	< 5.7	95.7	25.7	75.7	~ 5 · 7
≥ 3500	19.1	^ 3 . S	74.2		1	96.0	9502	26.2	79.7	36.2	36.2	6.2	66.2	76.2	96 • Z	24.5
≥ 3000	* ij	54.7	95.7	98.4	96.61	-6.9	97.1	¥7.1	97.1	57.1	97.1	97.1	67.1	77.1	97.1	27.1
≥ 2500	11.7	75.4	30. 3	33.1	47.5	67.5	97.7	97.0	3, 2	97.0	57.3		47.9	97.9		97.9
≥ 2000	1 . 4	v5.6	94.6	77.3	97.7	7.8		78.1	¥8 • ?	36 - 1	20.1	54.1	95.1	58.2	39.1	9
≥ 1800	1.	.5.5	95.8	97.5		96.3	99.2	34.2	95.7	26.3	98.8	93.1	91.3	98.	98.3	30.5
≥ 1500		.6.4	97.4	98.1	98.6	50.€	78.9	98.4	9 . 0	99.0		39.()	73.77	49.	99.	P. V.
≥ 1200	6.3	30.0	97.5		95.7	'B .	99.0		94.0	1.90		79.1		77.1	79.1	
≥ 1000	2.1	98.8	47.5		95.4	39.6	99.7	79.2	90.	36.2				99.3	40.5	7.6
≥ 900	-2.1	Shet	97.7			09.7	19.7	39.2	49.7	99.3	30.4	49.3	63.4	34.4	99.4	99.4
≥ 800	+2-1	76.7	07.7	38.5		79.1	29.3	179.4	73.4	09.	34.5	09.5			99.5	50.5
≥ 700	12.1	36.7	97.7	48.6		40.2	46.4	79.5	1.0 4	99.6	79.0	99.6			30.6	
≥ 600	72.1	\$ 6 . 7	97.5	98.6		^9 • Z	99.5	99.0	43.6	30.6	29.6	99.6			99.7	09.7
≥ 500	77.1	75.0	97.5	93.7	99.7	.0 . 3	99.6		44.6	04.7	90.7	99.7		29.8	39.8	99.4
≥ 400	7.1	35.7	97.9	99.7		19.5	94.6	99.7	99.7	99.8	99.8	99.8			79.9	
≥ 300	2.1	56.4	97.0	99.7		09.3	30.6	79.7	99.7	-	80.0	- 1		1.0.0		j-
≥ 200	12.1	76.9	97.9			29.5	99.5	59.7	79.7		09.9			100.0		
≥ 100	7.1	76.A	97.7	96.7	79.7	5 <b>9</b> • 3	99.6	99.7	39.7	1	83.0			00.0		
[ ≥ 0	52.1	36.3	97.3	93.7	99.7	· 9 . 3	20.0	77.7	79.7	27.7	93.0	99.9	1 (L.) • i	100.7	120.0	100.0

TOTAL NUMBER OF OBSERVATIONS 2479

## **CEILING VERSUS VISIBILITY**

97471	, All 45, **	73+65	Aus
STATION	STATION NAME	TEACS	HONTH

# PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING							VIS	HBILITY (ST	ATUTE MIL	ES)						
(FEET)	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 21/2	≥ 2	≥ 11/4	≥ 1%	≥ 1	≥ %	≥ %	≥ %	≥ 5/16	≥ 1/4	≥ 0
NO CEILING ≥ 20000	77.7		79.0	79.9		70.0	79.0	79.0	70.0			79.3	1	77.	*;.	79.
2 2000	, 12	46.07	86.1	26.1	87 1	201	26.1	*5.1	<u>Bral</u>	56.1	*tel	36 a i	66.1	36 . 1	المعفت	<u> </u>
≥ 18000 ≥ 16000	14 g 4	46.1	85.1	30.1 F5.1	86.1	16.1	36.1 36.1	96.1	35.1 55.1	Ptol	86.1	8001	#8.1	96 . 1	36.1	· 6 •
≥ 14000	24.2	16.4	65.5	A6.5	35.5	6.5	88.3	66.6	05.5	46.5	84.5	86.5	3 h . 5	46.5		
≥ 12000		<b>₫₿.</b> ₩	W 2 W 7	33.4	80.0	26.4	بهماؤن	27.4	98.4	45.4	89.4	90.0	<u> </u>	34.4	58 . 4	
≥ 10000 ≥ 9000	1.7	24.2	94.4	94.2	94.8	74.6	94.2	74.2	94.5	94.2	94.2	94.1	34.2	74	94.2	94 a .
≥ 8000	23.9	56.1	96.1	76.1	96.1	76.1	75.1	P5.1	96.1	e5.1	56.1	45.1	78.1	+6.1		76.
≥ 7000	, 7 . 7	96.1	96.1	96.1	76 . 1	96.1	96.1	76.1	76.1	96.1	46.1	46.1	76.1	76.1	56 . 1	16.
≥ 6000 ≥ 5000	04.8 -5.5		96.5	95.5	96.5	76.5 - 7.7	95.5	96.5	95.4	76.5	96.5	76.5	95.5	96.5	56.5	96.
				47.7	97.7	7.7	67.7	77.7	57.7	97.7	97.7	27.7		9 7 7		
≥ 4500 ≥ 4000	7.00	58.7		78.7	96.7	28.7	73.7	98.7	99.7	98.7	94.7	98.7				5.6
≥ 3500	6.1	99.5	39.0	35.0	99.5	79.0	99.	73.1	94.7	67.	99.5	94.	မက္.ပ	29.	99.	79.
≥ 3000	26.3	.9.4	95.4	27.4	59.4	~ P . 4	99.4	69.4	29.4	9.00	49.4	99.4	70.4	C9.4	99.4	99.
≥ 2500	' u . 1	79.4	37.4	:4.6	79.4	79.4	99.4	99.4	40.4	99.4	90.4	99.4	39.4	79.4	49.4	GQ.
≥ 2000	76.1	÷9.4	99.4	77.4	97.4	.9.4	99.4	79.4	52.4	79.4	90.4	99.4	\$9.4	53.4	99.4	99,
≥ 1800	· E • 1	39.4	99.4	99.4	03.4	:9.4	97.4	33.4	30.0	99.4	95.4	49.4	30.4	63.4	79.4	94.
≥ 1500	3.1	09.4		69.4	34.4		79.4		33.4	99.4	33.4	79.4	43.4	10.4	90.4	97.
≥ 1200	>5.5	39.7	39.7	00.7	99.7	9.7	99.7	99.7	99.7	79.7	99.7	39.7	79.7			63.
≥ 1000	2107	9.7				1.9.7	99.7		39.7	79.7	90.7	49.7	17.7		09.7	
≥ 900 ≥ 800	5.50	99.7	90.7	39.7	99.7	99.7	99.7	99.7	29.7	99.7	99.7	70.7	77.7		•	. •
	76.5	99.7					99.7					99.7			00.7	
≥ 700 ≥ 400	· 6 • 5	09.7	99.7	59.7	99.7	19.7		09.7	09.7	79.7		99.7	99.7	• •	99.7	09.
≥ 500	75.		100.0	102.0		1.0.0		100.0		100.0	100.0	100.0	1 7.5	100.	1.7.0	100
≥ 400			100.0		- 1		100.0				102.3				1 . 7 . 9	inn.
≥ 300	78.00		100.0			1 0.0					162.0				150.0	
≥ 200	tel	1 6.0	ານ: • າ	ira.i	150.3	0.0			:: · I	100.0	100.0		0.00		110.1	na.
≥ 100	· 6	1.100	130.0	170.0	173.7		100.0	10.6	100.0	1/16.0	10" .3	100.0	110.0		177.7	
> ~	5.1	100.0	hao. I	10.0	i un ari	100.0	i chan	ນວວາ	1.00.1	100.0	inc.a	100.0	77.0	120.0	150.0	400

TOTAL NUMBER OF OBSERVATIONS	;		
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## **CEILING VERSUS VISIBILITY**

#### PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING							VIS	BILITY (ST	ATUTE MIL	ES)						
(FEET)	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 21/2	≥ 2	≥ 1%	≥ 1%	≥ 1	≥ %	≥ %	≥ %	≥ 5/16	≥ %	≥ 0
NO CEILING . ≥ 20000	75.7	17.7	77.7	32.5	77.7	77.7 22.6	77.7	77.7	77.7	77.7	32.5	77.7	77.7 57.6	77.7	77.7 62.6	79.7
≥ 18000 ≥ 16000	1.f	02.6 22.5	47.6 42.6	42.6	97.6	-2.6	87.6	42.6	62.5	3 0 0 0	52.4 52.6	32.5	>7.6 F7.6	#2.6 F2.6	87.6 97.6	92.5
≥ 14000 ≥ 12000	1.7	42.5	87.7	55.9 94.5	82.9	52.9 34.5	32.7	47.9	47.0	52.9 84.5	34.5	52.9	51.5	82.7 84.5	€2.9 34.5	52.9
≥ 10000 ≥ 9000	7.4	73.7	97.7	93.3 90.7	90.0	າ <b>ປ</b> •ປ ຕ່ງ•7	90.7	90.7	90.7	9 . 7	57.7	90.7	27.7	50.0 30.7	?7.7 ??.7	90.1 60.7
≥ 8000 ≥ 7000	1.	93.4	93.6 93.6	93.6	93.6	13.6	93.6 03.6	93.6	33.6	23.6	93.6	97.5	97.6	3.6	51.6 73.6	93.6 93.6
≥ 6000 ≥ 5000	1.0	98.9	94.8	30.6	94.5	74.8	94.5	36.8	35.5	94.5	94.5	94.5	94.# 96.7	94.4	70.1	\$ . 3 56.4
≥ 4500 ≥ 4000	7.5	36. H	96.8	97.8	97.4	ं6 • इ 57 • ५	38.9 37.4	7.8	95.2	76.3	98.8	95.8 97.4	36.6	97.4	76.4	96.0
≥ 3500 ≥ 3000	44.5	98.1 98.1	93.1 98.1	98.1	28.1	73 - 1	74.1 94.1	50.1	96.3 43.1	3 × • 1	3:01	25.1	20.1	30° (	78.1	0.4.1
≥ 2500 ≥ 2000	4 4	9.	98.7 99.	34.5	95.7	39.0 29.0	99.4	79.4	₹5.7 ₹9.4	97.4	90.7	96.7 99.4	99.6	26.4	A4.3	59.7 59.4
≥ 1800 ≥ 1500	5 . F	99.4	03.4 93.	54.4	99.4	२ <b>०.</b> ७ ३०.५	95.4	49.8 79.7	70.4 50.7	99.4	49.4	9.4	30.7	77.7	09.7	26°4
≥ 1200 ≥ 1000	5 • S	ं <b>9 . ध</b> ८ ५ <b>. ध</b>	99.4	99.4	33.4	9.4	99.7	29.7 29.7	99.7	75.7	97.7	99.7	50.7	79.7	9.7	76.7 99.7
≥ 900 ≥ 800	5 • 3 - 5 • 8	79.7 49.7	95.7	99.7	1	29.7	100.0 100.0		1	100.0		100•0	160.7 160.0	10.0 10.0	100.0	100.0 100.0
≥ 700 ≥ 400	5.°	59.7	97.7	99.7	99.7	9.7	າດບ•ລ	100.0	1000	100.7	100.0		1 .0.0 1 .0.1	1 70 ±0 100 ±0	100.0 100.7	300.0
≥ 500 ≥ 400	5.	77.7	99.7	69.7		19.7	ree.u		100.0	100.0	100.0	0.30		1 70.0 1 70.0	1.5.6	1 0 . 1
≥ 300 ≥ 200	95.A	79.7	99.7	99.7	79.7	99.7 99.7	10.0	100.0	100.0	103.0 103.0	100.0	เอก-ย	מ.כרו		:c^.c	100.0
≥ 100 ≥ 0	15.0	- 99.7 - 99.7	99.7	79.7	90.7	(9.7 (9.7		100.0		100.U	100.0. 100.0		1	1 00 • 0		

OTAL	MINABER	OF OBSERVATIONS	١,	

## **CEILING VERSUS VISIBILITY**

#### PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING						-	VIS	HBILITY (ST	ATUTE MIL	.ES)			4.41			
(FEET)	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 21%	≥ 2	≥ 1%	≥ 1%	≥ 1	≥ %	≥ %	≥ 16	≥ 5/14	≥ ¼	≥ 0
NO CEILING ≥ 20000	3.3 a	54.5	63.7	73.6	13.5	73.9	73.9	75.3	73.9	65.4	73.4	37.6	57.4 73.9	59.4 73.7	57.9	77.5
≥ 18000 ≥ 16000	4.7	54.6 54.8	63.1 69.1	77.9 72.9	77.9	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2
≥ 14000 ≥ 12000	56.0	67.4	64.7 70.7	77.6	74.5	74.3	74.8	74.8	74.7	74.8	74.5	74.8	74.8	74.5	74.9 76.4	74.6
≥ 10000 ≥ 9000	. 1 . 5	72.7	76.5	41.3	87.3	: 2 . 4 2 3 . 2	82.6	12.0 43.2	F 2 . 6	*2.6	67.5	12.6 23.2	37.€	22.6 33.2	92.6	
≥ 8000 ≥ 7000	36 € 8 46, €	79.	37.9 97.9	87.7 51.7	89.7	49.0	29.0	59.0 84.0	49.7	89.4 84.0	87.0	89.0 89.0	87.5 89.0	37.	95.7	80 .°
≥ 6000 ≥ 5000	47.1	79.4	85.5	9.3	97.7	39.4	91.6	89.4 91.6	39.4	34.4	65.4	1.6	30.4	39.5 41.6	91.6	51.6
≥ 4500 ≥ 4000	45.7	71.5	55.5 30.5	9 .3	91.3	2.6	91.6	72.6	91.6	92.6	92.6	92.6	51.6	91.6	91.6	01.4
≥ 3500 ≥ 3000	75.3	12.8	85.5	92.6	92.6	94.2	92.9	02.7 44.2	94.2	92.9	97.3	52.9 94.2	07.0	92.9	92.5	97.9
≥ 2500 ≥ 2000	71.5	24.2	87.7	93.9	94.5	95.5	94.5	95.5	95.5	94.5	74.9	94.5	94.6	94.4	94.6	94.2
≥ 1800 ≥ 1500	72.3	95.2	85.4 87.7	91.9	95.2	5.5	96.9	35 . 5 96 . B	96.8	75.5	95.5	95.5 95.8	98.5	95.5 95.8	95.5	
≥ 1200 ≥ 1000	73.5	55.2 55.3	90.3	95.2 05.8	96.5	26.8	96.4	96.8	25.4	96.4	96.8	96.6	26.2	95.8	96.2	96.4
≥ 900 ≥ 800	72.6 3.6	36 · 1	90.7	96.1 97.1	97.4	97.7	97.7	47.7 39.0	97.7	97.7	97.7	97.7	99.0	97.7	97.7	97.7
≥ 700 ≥ 600	73.9	27.4	91.9	97.7	99.0	9.4	99.4	79.4	39.4	99.4	59.7	79.4	99.4	99.7	70.4	99.4
≥ 500 ≥ 400	73.9	67.4	91.9	97.7	99.4	79.7	99.7	39.7	99.7	99.7	99.7	99.7	90.7	29.7	99.7	99.7
≥ 300 ≥ 200	73.9	37.4	91.9	07.7	79.4	9.7	99.7	49.7	99.7	94.7	99.7 0.00	99.7	66.7	9.7 100.9	99.7	39.7
≥ 100 ≥ 0	73.7	37.4 57.4	91.9	97.7	90.4	79.7	1 10.0	• '' • • •	100.7	100.01	00.00 00.00	00.0	100.0	102.0 100.0	:00.0	00.0 22.0

TOTAL NUMBER OF OBSERVATIONS

#### **CEILING VERSUS VISIBILITY**

PERCENTAGE FREQUENCY OF OCCURRENCE

#### (FROM HOURLY OBSERVATIONS)

CEILING							VIS	IBILITY (ST	ATUTE MIL	.ES)						]
(FEET)	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2%	≥ 2	≥ 114	≥ 1%	≥ 1	≥ %	≥ %	≥ %	≥ 5/16	≥ %	≥ 0
NO CEILING	51.4	65.9	67.1	* f • 1	65.4	5,8 ⋅ 4	68.4	<b>6</b> € , 4	5 4	68.4	65.4	02.4	55.4	68.4	£2.4	56.4
≥ 20000	7.4	71.3	77.6	73.6		73.7	7 ° . 9	73.9	73.0	75.9	73.0	73.9	77.3	73.9	73.5	73.9
≥ 18000	:7 • 4	1	77.0	73.9	]	74.2	74.2	74.2	74.7	74.2	!	74.2	74.2	74 . 2	74.2	74.7
≥ 16000	57.7	71.8	73.2	74.2	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.8	74.5	74.5	7
≥ 14000	_ <u>54</u> • ₩	78.0	74.	75.2	75.5	75.5	75.5	75.5	75.5	75.5	1	75.5	75.5	74 . 5	75.5	
≥ 12000	13.7	74.5	76.1	77.1	77.4	77,4	77.4	77.4	77.4	77.4	77.4	77.4	7*.4	77.4	77.0	77.4
≥ 10000	6 . l	F1 - 3	87.9	67.0		4 . 2	54.7	84.2	84.5	ે વ • 2	34.2	₩ 4 • Z	* 4 . 2	44.2	24.2	_
≥ 9000	67.1	33.3	43.0	24 . 8	85.7	15.2	55.2	35.2	45.2	H\$ . 3	35.2	95.2	2 5	25.2	35.2	37.00
≥ 2000	1,7 • 3	34.2	35.	65.8		17.4	87.4	27.4	97.4	97.4		87.4	97.4	17.6		
≥ 7000	1 - 4	- 4 - 7	85.1	67.1	87.7	07.7	87.7	37.7	37.7	41.7		87.1	*7.7	67.7		
≥ 6000	· • •	95.7	56.3	27.7	66.0	े8 • 4	87.4	48.4	86.4	36.4	1 .	82.4	89.4	68.4	38.9	
≥ 5000	71.3	- 5 · N	B : • 4	89.7		90.3	90.3	97.3	20.3	49.3		20.3		°0.:	30.3	
≥ 4500	1,3	75.7	26.4	×2.3	97.7	77.7	97.7	90.7	911.7	70.7		73.7	43.4	90.7	97.7	
≥ 4000	2.3	39.1	3.00	71.5	92.6	°2.6	92.6	92.6	77.6	35.6		97.5	92.5	92.6	97.5	
≥ 3500	12.6	15.4		\$1.E	33.0	2.9	32.7	35.9	33.0	97.9		35. 3	7.7.6	92.9	97.6	T - 1
≥ 3000	13.3	18.7	2016	9.7 - 3	93.6	3.6	93.6	93.6	71.5	63.6	1	93.5	43.6	"3.e	93.4	05.0
≥ 2500	7.	,6.7	91.0	92 - 3	93.6	3	93.6	33.A	93.6	73.6	93.6	V3.0	97.6	03.6	98.6	\$ ₹ • 8
≥ 2000	3.7	30.0	97.7	^3.6	94 . 5	74.9	74.8	64.8	54.3	34.8	94.5	94.8	94.4	94.0	94.3	24 - 3
≥ 1800	7 > - 7	3.03	97.3	93.6	94.5	74.9	94.9	94.9	94.4	94.3		94.8	94.3	94.4	94.8	• 1
≥ 1500	75.7	1100	93.9	65.5	76.5	96.5	95.3	76.8	36.7	96.8		96.5	96. A	10.6	96.5	96.8
≥ 1200		71.7	74.7	95.8	9 1	67.1	97.1	27.1	97.1	07.1	97.1	97.1	>?•1	37.1	33.1	07.1
≥ 1000	15.4	35.8	95.5	7.7.1	37.7	5.7	98.7	24.7	76.7	48.7	43.7	99.7	0: 7	99.7	79.7	
≥ 900 ≥ 800	•	32.0	75.5	27.1	99.7	3.7	98.7	5.7	10.7	29.7		73.7	. 7	1		
≥ 800	15.4	32.4	95.5	)7.1	93.7	'0 • C	99.0	79.4	79.4	99.4	93.4	99.4	30°#		36.4	97.4
≥ 700	75.0	92.0	7 5 6	07.1	75.7	39.0	33.0	36.4	59.4	99.4	. • •	39.4	.;9 <b>.</b> 4			99.4
≥ 600	15.0	92.9	15.5	07.1	99.4	· • 7		100.0			150.3		170.0			1 () ( a ( )
≥ 500	15.0	92.7	95.3	97.1	99.4	19.7		100.0			162.3					
≥ 400	75.5	92.0			99.4	79.7					105.0					100.7
≥ 300	75.5	92.7	95.5	47.1	99.4	9.7		136.3						100.0		
≥ 200	75.4	92.9	95.5	77.1	99.4	99.7					100.0			מ. פני ו		
≥ 100	34.3	92.0			93.4	9.7					150.0		• • •		• • • • • •	
≥ 0	*	92.9	95.5	27.1	94.4	69.7	94.7	1 ~ 0 • D	107.0	100.0	103.0	107.0	100.0	100.3	170.0	100°C

					N: 6	
DEAL	MUMBER	OF C	DRSERVA	ZIONS	٤ ڏ	

DIRNAVOCEANMET SMOS

1

## **CEILING VERSUS VISIBILITY**

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING	VISIBILITY (STATUTE MILES)															
(FEET)	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 21/2	≥ 2	≥ 1%	≥ 1%	≥ 1	≥ %	≥ %	≥ %	≥ 5/16	≥ ¼	≥ 0
NO CEILING ≥ 20000	35.0	63.7 63.1	61 a 0	61.3	61.5	61.3 98.7	61.3	61.3	61.7	51.5	51 . 7	51.3	63.7	51.3 68.7	61.3	÷1 • 3 5€ • 7
≥ 18000 ≥ 16000	3.2	63.1	68.4	51.7	59.0	69.7	65.1	69.7	59.7 69.7	64.7	5º . 7	61.7	12.0	68.7	68.7	
≥ 14000 ≥ 12000	3.2	67 • 7 72 • ¥	67.6	63.4	69.4	72.9	69.4	59.4	59.4 72.9	57.4	67.4	69.4			69.4	1.9 . 4
≥ 10000 ≥ 9000	1.	77.7	75.1	70.7	73.7	78.7	75.7	78.7	74.7	75.7	71.7	74.7	71.7		74.7	74.7
≥ 8000 ≥ 7000	2.5		75.4	1.3.0		-3.0 -3.0	80.0	10.0	53.7	30.0	80.6 80.3	55.0		37.7		40.0
≥ 6000 ≥ 5000	12.5	79.0	77.0	87.3 82.6	<del></del>	2.6	80.0 80.0	80.0 80.5	20.5 62.6	35.0	87.0	77.5	45.C	40.1	37.6	47.5
≥ 4500 ≥ 4000	77.1	98.3	84.7	71.3		44.3	44.8	24.5	74.8 91.7	24.3	54.9	84.6 71.5	24.4	910	04.8 01.4	
≥ 3500 ≥ 3000	3.4	93.3	97.0	31.5	०२.6 ७७.5		53.4	37.6	93.6 94.6	94.5	C 3 . 5	34.5		93.6	93.4	C a
≥ 2500 ≥ 2000	4 . 7	93.9	96.5	95.5		65.5	95.5	23.5	95.5 97.1	95.5	95.5	77.1				97.5
≥ 1800 ≥ 1500	7.4	95.3	95.8	97.4	77.4	79.4	97.4	77.4	97.4	97.4	77.4	27.4		97.4	77.4	57
≥ 1200 ≥ 1000	7.4	97.4	98.4	29.4	99.4	19.4	99.4	90.4	99.4	74.4	\$9.4	49.4	57.4	99.7		99.4
≥ 900 ≥ 800	7.4	\$7.7 \$7.7	99.0	100.0	100.0		100.0		100.0	100.0		130.5		<del></del>	100.0	105.0
≥ 700 ≥ 400	7.4	97.7	97.0	100.0		170.0		100.0				100.3	100.0	170.3 100.3	130.7	100.0
≥ 500 ≥ 400	7,4	97.7		100.0	100.0	133.0	100.0		100.0	103.0	100.u	100.0	• • •	170.0	100.0	100.0 100.0
≥ 300 ≥ 200	7.4	97.7	97.7			10.0	100.0 100.0	100.0	100.0	100.0	100.0	100.0	157.0 107.0	100.0	100.0	105.0 105.5
≥ 100 ≥ 0	7 . 4	97.7	90.0	1:3.0		1:0.0	100.0		100.0	132.0	120.0	100.7	107.0	170.0	160.0	100.0

TOTAL NUMBER OF OBSERVATIONS	, '	١
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DIRNAVOCEANMET SMOS

1.1

#### **CEILING VERSUS VISIBILITY**

PERCENTAGE FREQUENCY OF OCCURRENCE

(FROM HOURLY OBSERVATIONS)

VISIBILITY (STATUTE MILES) CEILING (FEET) ≥ 10 ≥ 6 ≥ 5 ≥ 2% ≥ 1% ≥ 1% ≥ % 54. ≥ 20000 71.9 71.5 72.3 71. 72.3 72.3 77. 72.3 72.3 72.3 71.9 72. 72.3 ≥ 18000 72.4 22.9 72.9 72.9 72.9 72.9 71.9 72.4 72.9 72.9 77.0 77. 77.9 7...3 77.9 72.3 ≥ 14000 ≥ 12000 76.5 76.5 76.8 76.3 76.3 76.8 75.8 76.3 70.5 76.2 75.9 31.9 81.7 61.9 51.5 31.4 31.3 31. 21.9 01.2 81.7 31.3 ≥ 10000 ≥ 9000 +1.0 -1.9 21.9 21.9 61.7 1.7 31.4 1.5 31.7 01.7 11.61 22.6 47.6 27.65 .2.4 37.6 P2.6 #2.6 17.6 d2.1 37 27.9 27.0 47.3 52 8000 7000 3".0 12.6 :2.9 22.9 82.9 82.9 82.0 97.9 32.9 67.3 32.0 \$ 2.4 ≥ 6000 ≥ 5000 7. . 7 97 . 7 9 . 1 13.7 90.7 7D. 3 23.7 99.7 90.7 97.7 46.7 77.5 97.6 97.6 97.6 97.6 97.6 14.00 ≥ 4500 ≥ 4000 `5 <u>• :</u> 44.8 40.5 95.2 95.5 95. 44.5 65.5 55.5 95.5 97.4 97.7 97.7 \$7.4 46.0 3500 3000 18.4 38.4 38.4 58.4 58.4 05.4 05.4 05.4 7.4 97.7 98.1 99.1 70. 00.0 53.0 00. 00.1 20.1 29.7 99.7 39.7 90.7 00.7 ₹. . l 9 . 4 68.7 19.0 ≥ 2500 27.3 25.4 95.4 .9.7 29.7 1 . 4 73.7 47. 50.7 39.7 78.7 77.4 9.7 2.7 2 1800 19.7 99. 59.7 49.7 79.7 99.7 74.7 99.7 59.7 25.4 94 . 4 97. 59.7 . 9 . 7 50.7 119.7 40.4 9.7 37.7 09.7 1.5 f 200 1000 19.7 99.7 99.7 99.7 99.7 99.7 99.7 99.7 73.7 99. 92.4 000 29.7 99.7 99.7 59.7 69.7 69.7 69.7 39.7 99.7 39.7 69.7 99.7 99.7 59.7 99.4 1. 900 98.7 99.0 47.4 11.9 00.7 29.7 99.7 94.4 90. 99. 79.4 1. 700 600 1.4 00.4 70. ٠٦.٦ 99.4 1.4 500 400 99. 34.07 1 . 0 ত্রীকের বা 78.7 99. 11.5 21.6 96.7 99. 99.4 <u> 99. 71. 10. 11.00. di no ali no altao altan altan altan altan altan altan altan altan altan altan altan alta</u> 3.diag.diag.diag. rica dica diac diac dian oli ca oli pa oli ca c 1.6 100 99. 79.4 - valati da altenant e satuda altena altena altena el tenantena el tenantena el tenantena el tenante el tenant

TOTAL NUMBER OF OBSERVATIONS

DIRNAVOCEANMET SMOS

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STATION

111

### **CEILING VERSUS VISIBILITY**

PERCENTAGE FREQUENCY OF OCCURRENCE

(FROM HOURLY OBSERVATIONS)

CEILING		VISIBILITY (STATUTE MILES)														
(FRET)	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2%	≥ 2	≥ 1%	≥ 1%	≥ 1	≥ %	≥ 4,	≥ %	≥ 5/16	٤ ٧	≥ 0
NO CEILING ≥ 20000	70.1	48.4	59.4 83.2	50.4	6.4.4 83.	43.4 23.2	65.4 53.2	60.4 .3.2	67.4	43.2	€3.4 €3.8	69.4	5 7 6 4 5 3 6 2	49.4 13.2	69.9	,c.,
≥ 18000 ≥ 16000	7 3 a 3	82.3	83.2 83.6	63.2 63.6	37.0	3.2 -3.0	33.2 23.5	23.6	53.7 53.6	# ? • ? 9 } • 6	3.7 ₹3.6	130 à	61.7	05.2 35.6	63.7 53.6	
≥ 14000 ≥ 12000	70.0	13.2	84.2		34.2	84.2 87.4		24.2 27.4	64.2 g7.8	54.2 57.4	54.2 37.4	27.4	49.2 67.4	39 . 2 67 . 4	67.4	74.7
≥ 10000 ≥ 9000	5.5	11.0	92.9	92.9	97.9	92.9		22.5	32.3	9.09	92.9	92.9	97.0 92.9	77.9	92.9	9.3.7
≥ 8000 ≥ 7000	F - 1	93.6 93.6	94.5 94.5	04.5 04.5	94.5	94.5	94.5	74.5	30.5	94.5	04.5 64.5	94.5	34.5 54.5	24.5	94.5	\$4.5 \$4.5
≥ 6000 ≥ 5000	0 4 20 7	56. L	94.8	94.8	97.2	74.5	97.1	74.9	37.1	97.1	94.8 <7.1	94.3	94.5 27.1	94, c	97.1	07.1
≥ 4500 ≥ 4000	1.0	\$6.5 \$5.7	99.7	79.7	97.7	49.7	97.7	97.7	97.7 99.7	77.7	95.7	99.7	97.7	77.7	99.7	77.7
≥ 3500 ≥ 3000	37.5	98.7	99.7	99.7		09.7	95.7		\$9.7	09.7	99.7	99.7	y	99.7	79.7	37.1
≥ 2500 ≥ 2000	•	79.0			130.0	1 70 - 0	ם.רכו	100.0	13.0	120.0	100.0	100.0 100.3	1 10.3		100.0 122.0	10.0
≥ 1800 ≥ 1500	72.3	99.	190.0	156.0	100.0	170.0	100.0		137.0	190.0 199.9	102.0	100.0	100.0	100.3	100.0	
≥ 1200 ≥ 1000	7.0	99.7	100.7	10.0	100.7	100.0 100.0	130.0 135.0	1 76.0	1.0.0	100.0 100.0	100.0	100.0	100.0 100.0 130.0	1:3.3	30.5	100
≥ 900 ≥ 800	2.0	49.(		150.0	100.g	- ' '	190.5	170.0	100.0		100.0	198.5		179.0	137.0	3
≥ 700 ≥ 600	10 /2 m	99.0	100.0	100.0	100.7	1.0.0	100.0	100.0	1(3.3	173.0		150.5		1 70.	100.5	120.0 127.0
≥ 500 ≥ 400 ≥ 300	72.0	79.0		រាជ.១	100.0	1000	100.0		100.7	170.0	100.0	100.0	1 17.0	1:500	: ງຕູ້ເຄ ໄພດີເຄ	100.0
≥ 200	92.0		100.0 100.0		100.0		100.0				100.0				100.0	
≥ 100 ≥ 0	7.1	, 9	100.0	119.0	100.0	: (8.2	150.0	170.0	107.0	120.0	10 . 0	100.0	107.0	100.0	100.0	130

TOTAL NUMBER	OF	OBSERVATIONS	

#### **CEILING VERSUS VISIBILITY**

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

VISIBILITY (STATUTE MILES) CEILING (FEET) ≥ 10 ≥ 6 ≥ 5 ≥ 21/5 ≥ 14 ≥ 1% ≥ 1 ≥ % ≥ 5/14 6. NO CEILING > 20000 34 . : 36. 16.€ 7.1 7.1 ≥ 18000 ≥ 16000 27.1 .7.1 57.1 .7.1 31.1 37.: -7.4 57.4 77.4 A7.4 ≥ 14000 ≥ 12000 84.7 19.7 89.7 27.7 69.7 47.7 50.5 75.5 5.5 93.5 05.5 75, ΨĄ. 35.8 96.3 26.8 95. 3€ . 3 -6.5 96.8 98.9 27.1 97.1 37.1 47.1 97.1 97.1 77.1 6000 57.7 47.7 97.7 47.7 97.4 57.7 97.7 97.7 97.7 97. 37.7 07.7 110.4 30 . 4 95.4 74.6 9 A . 1 28.4 38.4 38.4 93.4 90.4 95.4 78.7 43.7 92.7 98.7 28.7 VB.7 4000 78.7 98.7 99.4 99.4 63.4 99.4 99.4 50.8 99.5 .9.4 79.4 3500 3000 20.7 29.7 ra el co el co el co el co el ec el co el 1.0170.0100.01 2500 2000 สะสาร ของเกิด อาสาร <u>ที่เมาะที่เดอะที่มากะศัมเต็อที่เดือนได้เคยะที่เดอะที่เดอะที่เดอะที่เดอะที่เดอะที่เดอะที่เดอะที่เดอะที่เดอะ</u>ที่ 1800 99. 11 11. 11 10. 11 10. 11 10. 11 10. 11 10. 11 10. 11 10. 11 10. 11 10. 11 10. 11 10. 11 10. 11 10. 11 10. 1 19. 11 11. 11 10. 11 10. 11 10. 11 10. 11 10. 11 10. 11 10. 11 10. 11 10. 11 10. 11 10. 11 10. 11 10. 11 10. 1 1200 1000 កុម្ភា ជាជាប្រសៀវ កុខភេឌ្ឍ ភេឌភេឌ បានប្រជាពី ភេឌភេឌភេឌភេឌភេឌភេឌភេឌភ <u>ម្រាស់ ស្រាស់ ស្រាស់ ស្រាស់ ស្រាស់ ស្រាស់ ស្រាស់ ស្រាស់ ស្រាស់ អា</u> ve. Atta. place of the edition of the off the place of the children is 800 ที่เราะสุเกราะสเตกะสุเกราะย์เอละสุเกราะย์ เลาะสายสายเกาะย์เอละสุเกราะสุเกราะสุเกราะสุเกราะสุเกราะสุเกราะสุเกรา 700 79. 1100. 1100. 1100. 1100. 1100. 1100. 1100. 1100. 1100. 1100. 1100. 1100. 1100. ชชาวได้การที่เขา เดียก เดียก เลียก เลียก เดียกการที่ กบากที่ กบากให้บากให้เกียก เดียก เดียก เกียก การที่ยังกับ กราทีเบย เทียก เดียก เดียก เดียก เดียก เดียก เดียก เดียก เดียก เดียก เดียก เดียก เดียก เดียก เดียก เดียก เดียก 500 400 ទេ វាបានសំនៅសេខ ជាចេច ជា าน - ปรกต - ปรกต - ปรกจายปรกต - ปรกต - ปรกต - ปรกต - ปรกต - ปรกต -300 200 99. 7127. dine dino di condine di re-gioù dina dice dina mi 94. 11:00. dir .. oli m. di 0. di 00. di ພດ. ທຸເພຍ ເປັນປະທານາດ. ທ່ານວະຖະກາດ ຕູ້ເພດ. ກຸໂທກ.

DIRNAVOCEANMET

TOTAL NUMBER OF OBSERVATIONS

### **CEILING VERSUS VISIBILITY**

# PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING	VISIBILITY (STATUTE MILES)															
(FEET)	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 21/3	≥ 2	≥ 1%	≥ 1%	≥ 1	≥ %	≥ 4	≥ %	≥ 5/16	≥ '•	≥ 0
NO CEILING ≥ 20000		70.7	A 1.2	2 ° 0	7:40	7	77:41 78:4	77•1 7-•4	70.4	7 . 4	7 .1	7 . 4		7 : 4	7	-
≥ 18000 ≥ 16000	11.	76.0	77.7	71.4			79.0	7 8	75.5	70.5	77. 1	7 - 1	7 . 6	7 5 • c	7	7
≥ 14000 ≥ 12000	11.5	77.4	75.7	70.3	73.2	75.2	71.2	73.2	77.7	91.7	31.7	7: . 2	7	7.	70.0	*1.7
≥ 10000 ≥ 9000	7.	5.	30.0	77.3	97.5	7.5	87.0	77.5 27.9	67.5	27.5	67.5	37.5	67.3	7.	17.5	, <b>7.</b> .
≥ 8000 ≥ 7000	1.7	1.3	સું. ડ કુ. ∎િ	3 3 . A	9" n	3. 3.1	97.1	5.1	1	20.0 9 .1	9 .	90.6	<u> </u>	. 1		7
≥ 6000 ≥ 5000	1.07 3.4	%6.5 \$1.1	61.0	l .	១ម <b>្</b> ធ		90.5	20.5	54.5 53.1	93.5	00.5 23.1	97.3 92.1	• • • • • • • • • • • • • • • • • • • •	, `.f.	* , • 5	
≥ 4500 ≥ 4000	4 • 5	73.0	92.1		73.4 75.0		95.8		4, ₹ . ₹ 3, ₹ . ₹	73.	97.3	95.2	1, 1 . R	75. 25.	48.2 98.5	9:
≥ 3500 ≥ 3000	5.7 7.0	74.4	95.9			75.7 77.3	96.7	6.7	97.7	90.7	96.7	97.2	1 5.7	28.7	05.7	71.7
≥ 2500 ≥ 2000	7.7	25.0	95.3 95.3	97.2	1	7.5	97.6 54.2	27.5	97.5	87.5	\$ ** . U	57.5	27.6	97.6	77.5	\$ <b>7</b> .
≥ 1800 ≥ 1500	7	75.7	95.3	97.8 20.5	- 1	ଃ • . ? ଃ • ଦ	93.3		99.5 54.0	95. X	93.5 42.9	38.3 4(.9	10.3 62.6	H • 3	78.7 30.0	12.
≥ 1200 ≥ 1000	4 . 4	45.4 76.5	97.5 97.3	ବଣ୍ୟ ଜନ୍ୟ		9.1	90.4	19.0 19.4	90.0	- 1	97.1 90.4	94.3	5 3 <b>.</b> ()	`9. \$3.4	90.1 30.1	दंदे • व ७७ • •
≥ 900 ≥ 800	\$ . I	76.7	97.7	99.5	99.4 37.5	9 . u	99.5		39.7	59.3	79.7	09.5	.9.5	79.5	7.0.5 7.7	75.5
≥ 700 ≥ 600	-8-4	64.0V	93.1	99.2	4.PU	`9.7 >9.€	99.3 99.5		20.00	99.4 93.4	- ;	99.3	•	95.4 60.7	39.9 99.9	99.7
≥ 500 ≥ 400	, ,	95.0	90.2	79.2	99.8	49.0	99.7	100.0	1 1."	1"6.5 183.8	• • • •	100.1 100.0	1	1:: 1:4	140.0	i
≥ 300 ≥ 200	· 7	96.9	93.7	39.2 5 <b>∀.</b> 2	30 e	9.4	09.9	100.0	140.5	100.0 100.0	187.7 183.9		1 1 7 . 7	100.1	127.0 147.0	
≥ 100 ≥ 0	7	i -	90.2	39.2 ≈¥.2	90.	9.9		- 1		173.0	101.0				: :: 0 • 0	1': •

TOTAL NUMBER (	٦F	OBSERVATIONS		
•			 	_

### **CEILING VERSUS VISIBILITY**

PERCENTAGE FREQUENCY OF OCCURRENCE HOURS .. . . .

## (FROM HOURLY OBSERVATIONS)

VISIBILITY (STATUTE MILES) CEILING (FEET) ≥ 10 ≥ 6 ≥ 21/2 ≥ 11/2 ≥ 3 ≥ ¾ ≥ 5/16 57. NO CEILING ≥ 20000 ≥ 18000 ≥ 16000 ≥ 14000 ≥ 12000 5. ≥ 10000 ≥ 9000 ≥ 8000 ≥ 7000 67.7 ≥ 6000 ≥ 5000 0,0 4500 4000 <u>></u> ≥ 3500 ≥ 3000 2 1.4 ≥ 2500 ≥ 2000 ≥ 1800 ≥ 1500 21.7 .3.7 1200 1000 6.3 ≥ ≥ 900 800 35.7 46.7 ≥ ≥ 700 600 <u>≥</u> 5 + 6 3

TOTAL NUMBER OF OBSERVATION	we '	
IOIAL NUMBER OF DESERVATION	T-3	

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### **CEILING VERSUS VISIBILITY**

PERCENTAGE FREQUENCY OF OCCURRENCE

# (FROM HOURLY OBSERVATIONS)

CEILING							VIS	IBILITY (ST	ATUTE MIL	ES)						
(FEET)	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 21/2	≥ 2	≥ 1%	≥ 1%	≥ 1	≥ %	≥ %	≥ %	≥ 5/16	≥ 1.	≥ 0
NO CEILING ≥ 20000	1	50.7	6 7	εω	50.	79.0 74.0	5 · · · ·	40.E	47.7	74.0		49.00	74.0	54.5 74.5		24. 74.
≥ 18000 ≥ 16000	10.	73.7	73.7	74.7	74.	74.	74.	74	74.	74.0 74.	74.7	74.0	74.0 74.0	74.0	74.7	74.
≥ 14000 ≥ 12000	, , ,	74.17	74.0	74.5 70.0	74.7	74.3 76.3	74.3 76.3	74.3	74.	74.3	74.3	74.3 75.5	74.3	74 . 5	74.3	74.2
≥ 10000 ≥ 9000	73.7	7	3 ° . 3 2 3 . 3		37.3 93.3	3.7	03.7	27.7	A3.7	83.7	57.7 87.7	83.7	- 1.7	93.7 23.7	63.7 83.7	23.7
≥ 8000 ≥ 7000	. 7	6.7	56. ? 87.	91.7	86.7 87.3	37.0 37.7	67.0 87.7	7.0	27.7 87.7	87.0 87.7	' '	47.7	17.1 67.7	47.7	57.7	:7.°
≥ 4000 ≥ 5000	2 a 7	7.7	83.0	50.3 50.3	60.3 50.3	8.7	88.7 88.7	15.7	58.7	93.7	66.7 33.1	88.7	1	36.7 88.7	88.7 59.7	8×.7
≥ 4500 ≥ 4000	3.7	3 8 • 7	88.3 59.0	55.7 89.3	80.7 80.3	89.7	89.0 89.7	77.T	89.7	87.7	89.7	87.7	20.0 90.7	39.7	80.7	30.
≥ 3500 ≥ 3000	.4 . T	19.5 19.5	69.3 87.7	37.7 95.9	89.7	°0.0 °0.5	90.0 90.3	10.0 71.3	90.7	90.0 90.3	ಳಗ•១ §(•3	90.0 90.5	93.5 91.5	76.8 90.5	99.5 98.3	? • ·
≥ 2500 ≥ 2000	4.7	មណ្ឌ ខ្លួ	31.0	00.3 91.3	96.3	17.7	95.7 91.7	70.7 71.7	20.7 91.7	97 91.7	91.7	97.7		90.7	97.7	91.7
≥ 1800 ≥ 1500	5.7	50.3 52.7	91.0	%1.3 53.3	91.3	21.7 23.7	91.7 93.7	7.7	71.7 73.7	91.7 93.7	91.7 97.7	51.7 53.7	71.7 73.7	91.7 23.7	01.7 73.7	91.7 73.7
≥ 1200 ≥ 1000	7 <b>.</b>	33.3	94.7	94.6 94.3	94.7	74.3 95.1	94.3 95.0	25.17	94.5 95.1	34.3	5 m . 3	98.0	04.3 04.0	ాక . గ		76.3
≥ 900 ≥ 800	77.7	23.3 34.7	94.0	25.3	94.7	5.	95.0 65.1	25.1	95.1 95.1	96.		96.0	24.7	೧೬ - ೧	36.0	420.1
≥ 700 ≥ 600	.5.0 2.3	-4.7	95.7 96.0	95.3	96.7	76.7	96.7	?8.7 27.0	91.7	95.7	97.	97.0	97.7	47.0	46.7	67.
≥ 500 ≥ 400	. b . 7	75.7		97.3	97.7	7.7	97.7		48.7	91.7	90.0	97.7	35.7	370.	99.	99.7
≥ 300 ≥ 200	€ • 7 • • • 7	75.7	95.7	97.3	97.7	√8. ^	49."	99.3	६ व ४	17:00	120.0			0.00		106.5
≥ 100 ≥ 0	.F. ~	95.7 95.7		07.3	97.7	78	99.5	99.3			របួក•ប ព្រំប•ប			130.0 130.0	100.0	

TOTAL NUMBER O	E ORSERVATIONS	, ,
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### **CEILING VERSUS VISIBILITY**

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING						<u> </u>	VIS	IBILITY (ST	ATUTE MIL	.ES)						
(FEET)	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 21/2	≥ 2	≥ 1%	≥ 1%	≥ 1	2 %	≥ %	≥ %	≥ 5/16	≥ 1	≥ 0
NO CEILING ≥ 20000	67.7 92.7	57. S	61.	62.7	65.5	63.3 65.7	55.7	45.7	65.0 55.7	65.7	6 7 . 0 65 . 7	53.Q	13.0	65.7	69.F	5 15.7
≥ 18000 ≥ 16000	4 . 7	40.	67.3	64.3	55.3	65.7	65.7 65.7	45.7	65.7	65.7	65.7	65.7	65.7	65.7	1	65.7
≥ 14000 ≥ 12000	-2.7	71.7	67.3	64.3 £7.3	65.7	55.7 59.0	1	65.7	65.7	55.7 59.1	69.7		63.7 59.0	65.7	69.	
≥ 10000 ≥ 9000	5.3	5. * 5. 7	75.3	72.3 72.3	73.7	74 • G 74 • D	1 1	74.0	74.0	74.5	74.3	74.1	74.0 74.0	74.	74.	74.
≥ \$000 ≥ 7000	36.7	57.3	72.0	74 . 3	75.7		, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	76.7	76.3	76.3	76.3 76.7	76.3	76.3 74.7		76.7	
≥ 6000 ≥ 5000	36 • 3 5 • 7	69.3	72.7	74 . 7 76 . 3	76.7	74.3	76.7 75.3	77.0	74.5	77.6	77.0	77.7	77.7	77.7	77.7	· · · · · · · · [
≥ 4500 ≥ 4000	37 • 7 5 • 7	50.5 71.3		- 1	78.00 PO.3	78.3 10.7	31.0	70.1 81.3	73.7	74.5	70. A	19.1	77.7	79.0	11.3	71.0
≥ 3500 ≥ 3000	51.7	73.7	72.3	20.3 A3.7	82.3		83.7	23.3 84.0	43.3	33.3	6	F3.5		53.3 [4.2	N 8 . 8	
≥ 2500 ≥ 2000	,	73.5	7: . 3	81:.7 81:3	32.3 63.0	3.3	A ? • 3	54.0	34.7	44.0 34.7	34.7	54.7	56.7	34.7	54.7	24.1
≥ 1800 ≥ 1500	2.	74.5	76.5 81.5	61.7 23.7	83.3 55.3	5.7	84.7	82.0	57.0 67.0	15.J	85.0 57.0	5.5.0 57.0	35.0 27.7	73.0 7.0	55.3 57.7	
≥ 1200 ≥ 1000	3.7	78.7	83.7 65.3	95.13 95.3	87.7	88.° ∨3.3	91.7	39.7	89.7 72.	89.7	89.7 92.0	59.7 72.0	्र <b>्*</b> ९४•ः	80.7	47.	
≥ 900 ≥ 800	5.7 5.7	21.7	84.0	84.U	65° ti	91.1 92.3	92.3 93.7	12.7	72.7	34.7	77.7	97.7	\$2.7 \$4.7	92.7	93.7 94.7	
≥ 700 ≥ 600	6 • .	60.3	37.3 47.3	99.7 99.7	43.0	3.3	35.€ 95.6	76 • Ω 15 • Ω	96.0 96.7	95 . C	96.J	36.0 96.0	95.0 75.0	?6 • € ?6 • €	76.7	61, . 94. s
≥ 500 ≥ 400		22.7	97.7	93.3	96.3	5.7	96.7 97.7	96.3	93.3	97.7	98.3	97.7	90.3	78.3	98.1	55.7
≥ 300 ≥ 200	. n • 1	4 3 . 3 4 7 . 3	84.3	\$ \$	95.3	76. 19.1	98.0	79.0	99.3	99.0	99.0 99.7				100.0	
≥ 100 ≥ 0	6.3 n.1	13.3	44.3	20 • 3 2 • 3	95.5	6 • ·	98	0 0 € 3	99.3	79.7	79.7	99.7			100.5 100.5	

TOTAL NUMBER OF OBSERVATIONS\_

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### **CEILING VERSUS VISIBILITY**

# PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING						-	YIS	BILITY (ST	ATUTE MIL	<b>E</b> S)						
(FEET)	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 21/2	≥ 2	≥ 1%	≥ 1%	≥ 1	≥ %	≥ %	≥ %	≥ 5/16	≥ 14	≥ 0
NO CEILING ≥ 20000		1.7		° 21 , 7	55.7	2 • ? 5 • 3	55.7 60.0	1 > . 7	55.7	55.7	55.7 60.0	4.5.7 67.0	55.7 27.0	15.7 • 0.0	55.7 55.0	55.7
≥ 18000 ≥ 16000	1.7	ខ្ញុំ ក្តុ	57.5	7.3		· 3	50.3 50.3	40 . 3 60 . 3	5	6 . • 3 5 . • 3	60.3	53.3 60.3	60.3	40.3 53.3	60.3 50.7	• * • !
≥ 14000 ≥ 12000	7.0		50.0 50.0	66.3	6 j.7	-	62.	1.	51.7	61. 62.0	61.00 67.00	61. / 62.3	51." (****	51.0 52.0		
≥ 10000 ≥ 9000	65.7 41.7	n2.3	54.7		67.7	67.7	69.3	4, 11	60.00 60.00	53.01 52.01	59.1	64.7 60.7	0 .	58.1 48.7	60.°	
≥ 8000 ≥ 7000	44.7	65.7 55.7		7 .7		72.7	77.3	72.3	72.7	72.5	77.1	73.3	77.3		72.5	77.1
≥ 6000 ≥ 5000	- 7	66.67	4".7 69.7	77.0	72.3	73.3	72.7	73.7	73.7	73.7	72.7	13.7	77.7	73.7	77.7	
≥ 4500 ≥ 4000	1.	69.3	71.3	73.7	74.	73.7	75.3		74.7		75.3	73.3		75.07	75.3	75.7
≥ 3500 ≥ 3000	3.0	59.3	74.0	75.5	77.7			70.	73.5	76.5		75.2	75.7	7500	70.	750.
≥ 2500 ≥ 2000		71.7	77.7	#0.C	21.7	21.7	47.5	42.5	75.7	32.3	76.7	5.7.3	22.3		57.3	9.3
≥ 1800 ≥ 1500	76.7	77.7	40.0		86.7	+6.7	47.7	17,7		97.7		87.7	£7.7	R7.7	57.7	< 1.7
≥ 1200 ≥ 1000	7	21.7	84.7	89.3	91.7	1.7	92.3		92.7	91.5		42.7		y2.7	52.7	52.7
≥ 900 ≥ 800		61.7		90.7	93.7	.3.7		74.7			94.7	94.7	74.7	94.7	74.7	04.7
≥ 700 ≥ 600	1.5	32.7	30.7	91.3	94.7			46.0			76.3	96.3	`4.7 >1.3	76.3	94.7 95.3	74.7
≥ 500 ≥ 400	1.3	/ 3.3 3.5	85.7 88.7 88.7	2 2 C	36.7	7.5	98.0 97.0	73.3	90.3	99.7	37.7	29.7	98.7 99.7	39.7		98.7 99.7
≥ 300 ≥ 200	1.3	98.4 83.	81.7		96.7	7.	99.	99.3	99.3	94.7	49.7	CG. 7	50.7	79.7	100.0	100.5
≥ 100 ≥ 0	1.3	43.3	i	37.7					• ,		-				100.0	

TOTAL NUMBER OF OR	SERVATIONS	 i	6

### **CEILING VERSUS VISIBILITY**

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING							VIS	BILITY (ST	ATUTE MI	LES)						
(FEET)	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 21/4	≥ 2	≥ 1%	≥ 1%	≥ 1	≥ ¥	≥ %	≥ %	≥ 5/16	≥ 14	≥ 0
NO CEILING	• "	-3.7	54.	T. F J.	55.0	5.5	55.0	15.0	J5.0	55.0	55.0	55.0	27.an	15.	58.	E K .
≥ 20000	91.0	61.0	62.3	62.3	67.3	16.00	66.3	17.3	67.7	62.3	67.5	62.3	( . 3	62.3	c?.3	62.3
≥ 18000		51.7	63.1	43.5	63.	: 3 - 3	53.0	.3.0	67.	53.00	43.3	ធវិ∙ដ	53.0	n3.0	4.2.0	÷ * • *
≥ 16000	100	:1.7	6 7	43.0	63.0	+ 5	63.	4.3 €	· 3 • ^	15 3 6 0	63.0	r3.3	2.1	+3.0	53.0	67. T
≥ 14000	0.7 • 1	63.0	64.3	64.3	64.3	54.3	64.3	P4.3	64.7	64.3	64 . 3	64.3	36.48	64.	64.3	64.
≥ 12000	. 7		67.0	67.3		67.0	67.	67.	47."	67.0	67.4	67.	6.7.6	67.	67.	47.
≥ 10000	1 2 . 7	71.0	72.7	72.7	75.0	73.0	73.0	73.	77.7	* 5 . 5	75.7	73.1	7.00	73.	73.	7
≥ 9000	7	71.5		72.7	72.0		73.7	73.0	73.7	73.	71.0	73.	77.7	77.	7 7	
≥ 8000	- 1, • ₹	73.	74.7	74.7	75.0	75.0	75.0	75.0	75.1	75.0	75.0	75.1	7	75.		7:.
≥ 7000	• ~	73.7	73.0	75.0		75.3	75.3	76.7	75.7	75.7	75.7	75.7	73.7	75.7	+	75.7
≥ 6000	> 7	73.7	75.7	75.7	76 a	76.	76.0	76.3	76.63	76.3	16.3	76.3	7 3	76 - 5	76.5	7
≥ 5000	67.3	75.7	77.7	17.7	76.	79.5	70.0	73.7	7: . *	7000	7: • *	73	7-•	79.3	74.5	7
≥ 4500	6 . • 3	76.7	70.7	70.7	77.	79.0	79.	77.3	30.0	43.3	79.5	79.3	1 . 3	7 ) . 3	77.7	74.
≥ 4000	'1. ~	76.3	81.3	31.3	51.7	:1.7	61.7	72.6	<u> </u>	2.	62.7	2501		-		
≥ 3500	7.07	81.5	91.3	23.3	93.7	13.7	83.7	" <b>4 •</b> €	64.	44.	8	3400	24	4.	14.	* •
≥ 3000	74.7	840€	98.0°	35.3	36 . 7	36.7	86.7	37.11	* 7 .	37.	37.5	27.	- 10	* * *	<u>+7.</u>	
≥ 2500	3		57.7	£2.3	89.5	79.0		27.3	54.3	39.7	£7.3	99.5	7.3.3	63.3		
≥ 2000	78.3	*7.	87.5	89.7	50.3	70.7	90.7	31.0	91.7	/103	91.7	71.	110	110	<u>, 71 •                                   </u>	
≥ 1800			80.7	33.7	90.3	00.7	77.7	1.0	91.	91.0	91.0	71.5	.1 • L	*1.	1 1 1 1	- 1 -
≥ 1500	7.7	05.3	92.7	75.7	74.	30.3	94.3	14, 7	.4.7	99.7	24.7	94.7	14.7	34 . 4	1 20 17.	3.4 • 7
≥ 1200	7	91.7	94.3		95.7	(6.)	96.3	-6.3	9.	Se 3	96.3	76.3	75.5		1 . 6 • 21	``• `
≥ 1000		72.	75.3	200 J	95.7	37.1	97.	77.3	97.3	57.8		57.5	25.6	97.3	0.0	
≥ 900 ≥ 600	76.5	72.3	95.7	95.3	27.3	77.7	07.7	39.		95	99.			;	1 73 et 1	
	7 3	32.7	96.3	96.7	37. 7	6.3	98.3	98.7	98.3 7m.7	30.7	90.	50.1	75.5	78.	00	-
≥ 700 ≥ 600	7.	72.7	96.3	97.5		48.3	99.3	- 1	94.7	23.7	69	59.	1 7 9	70	43.1	
<del></del>	7.0	92.7	96.3		لمتسسا	79.7		09.3	33.3		79.9		79.7	79.7		95.7
≥ 500 ≥ 400	70.3	~2.7	96.3		· · ·	79.0	59.0	39.3	14.3		59.7		30.7	49.7	54.7	99.7
<del></del>	72.1	42.7	95.5	97.	98.0	99.0	20.0	↑ <b>9</b> 3	20.4	00.7		100.0			100.0	
≥ 300 ≥ 200	7	92.7	96.5	97.0	98.3	99.3	99.3	-	90 3			100.0				
	72.1	92.7	9003	27.0	98.0	39	99	09.3	59						100.0	
≥ 100 ≥ 0	78.3	72.7			99	9	99.0	34.3	59.3	: 1					0.001	
			T 13 0 3	7 . 6 .3	7.7 0 1.1			7,03	7703			4		B . 1/ 0 U	19 27 12 6 77	

TOTAL	MUMBER	OF O	RSERV	ATIONS	

DIRNAVOCEANMET

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### **CEILING VERSUS VISIBILITY**

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

13-32

VISIBILITY (STATUTE MILES) CEILING (FEET) ≥ 10 ≥ 6 ≥ 1% ≥ 5/16 NO CEILING 55.7 53.7 55.7 53.7 43.7 5 7. 7 64.0 44. 64.0 44.0 64. 64. 54.0 54. ≥ 14000 ≥ 12000 64.7 64.7 64.7 64. 64.7 64. 64.7 77.3 77.3 77.4 77.5 77.7 77.0 77. 77.0 77. 77.7 77.7 78.3 78.3 70 . 3 78.3 79.3 75. 7.4 . 3 70.3 78. 72.3 6000 5000 . 1 . 3 81.3 31.3 61.3 21.3 41.3 51.3 31.3 54 . . 84 . 7 E4 . 1) 64.0 14.0 84.3 4500 4000 7.5 87.3 87.5 a7.3 87.3 67.3 67.3 35.7 87.3 37. 57.3 37.3 PQ.C 59. 37.0 49.0 50 . n en. A . 3 37. 85. 9.7 89. 3 89. .. 69. 21.0 91.0 71.0 89.3 90.0 21.0 91.0 91. "1. 91.7 93.0 93.0 93.0 93.0 03.3 93. 93.0 97.0 75.0 95.3 95.3 99.3 45.3 3.3 95.3 75.3 76.0 9.00 76.7 96.7 06.0 45.0 76.D 95.0 95.0 1800 96.7 76.7 96.7 96.7 1500 76.7 25.7 26.7 26.7 96.7 97.3 97.3 97.3 97.3 7. 7.3 97 77.3 97.3 <u>≥</u> 98.3 45. 3 950L 98.3 96. 7 98.3 04.3 98.7 98.7 93.3 75.7 95.0 98.3 78.7 98.7 98.7 7.0 98.0 99. 38.7 98.7 48.7 38.7 98.7 98.7 95.7 93.7 98.7 98.7 99.3 7. 95.2 95. 38.3 95.7 09.7 79.0 99.0 400 39.3 39.3 99.3 49.3 95.3 99.0 99.3 79.3 76.3 39.3 99.3 ٠7. 79.3 99.3 96.3 73.3 500 400 95.3 99.0 79.3 99.7 29.7 29.7 49.7 99.7 99.7 49.7 49.7 99.7 57.0100.5 96. 7 50.3 17. 75.1 39.0 99.7 99.7 300 200 99. 29. 3 99. 7 19. 7 29. 7 99. 7 99. 7 99. 7 49. 7 99. 7 101.01.00.0 75.3 7. 03.3 99. 99.7 79.7 79.7 79.7 59.7 99.7 49.7 49.7100.0100. 99.7 99.7

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DIRNAVOCEANMET

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### **CEILING VERSUS VISIBILITY**

STATION STATION AND STATION AN

# PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

VISIBILITY (STATUTE MILES) CEILING (FEET) ≥ 10 ≥ 6 ≥ 5 ≥ 21/4 > 1% ≥ 5/16 64. 75.7 75.7 75.7 75.7 75.7 75.7 75.7 75.7 75.7 75.7 74.7 75.7 75.7 75.7 75.7 75.7 75.7 75.7 75.7 75.7 75.7 ≥ 16000 75.7 75.7 75.7 75.7 75.7 75.7 75.7 76.3 71.5 76.3 75.3 76.3 76.3 76.3 76.3 76.3 ≥ 14000 ≥ 12000 79. 79. 79. 79.0 79. 79.1 73. 79.0 79. 72.3 74.0 74. 44.3 44.5 1.4 . 4 £4 . 3 24.3 24.3 24.3 ≥ 10000 ≥ 9000 54.7 64.7 84.7 34.7 84.7 £5.3 ≥ 8000 ≥ 7000 83. 86.3 89.7 PQ . 3 39.3 18. 67.3 84.3 ≥ 4000 ≥ 5000 SC . 3 93.3 73.3 41.3 94.3 9. . 9-1-3 711.3 ≥ 4500 ≥ 4000 9 . 94<u>.</u> 9:02 30.3 9.7.5 7. 11.3 91.7 C1.3 91.3 91.3 91.3 31.; 91.3 51.3 ≥ 3500 ≥ 3000 92.0 92.0 2.0 92.0 22. "7." 72.3 77.0 97.0 24. -4. 94. ¥4. 72 64 ... 174 . . . 14.7 25.7 95.7 55.3 45.7 5.7 95.7 95.7 76. 46. 45. 74.7 66.3 ٠6. 30. ¥0 <u>•</u> 97.0 97.0 47.0 26.7 57.0 97.0 -6.7 3 R . 98. 91.0 47.5 98.7 97.7 78. 38.7 99. A 96. 27 . C 97.7 75. 20 49. 99.3 98.7 36.0 39.7 99.3 9-. 3 59.3 99.3 Κ, 99.0 09.3 99.3 24.3 99.3 99.3 57.3 :7.3 400 48.5 29.71 (2.01.00.4).20.0) 20.0(100.0) 97. 77.7 99.7 .9. . 99. 7|1 ne . a|1 an . n|1 ac . a|1 ac . a|1 ac . a|1 ac . a|1 ac . a|1 ac . a|1 ac . a|1 ac . a|1 ac . a|1 ac . 5 c. stroe of oc. of oc. of cc. of 300 200 97. 49. 90.7 54. 97.7 contracontracolaca alternation objects alternation of the contracontracolace and contracolace . mine.chan.chae.ahaa.akce.akce.akce.a 100 47.7 antelas color el porte de la color de la c

TOTAL	NUMBER	OF	OBSERVATIONS

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## **CEILING VERSUS VISIBILITY**

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING						· ·	VIS	BILITY (\$T	ATUTE MIL	ES)						
(PEET)	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 21/2	≥ 2	≥ 1%	≥ 1%	≥ 1	≥ ¥	≥ %	≥ %	≥ 5/16	≥ %	≥ 0
NO CEILING ≥ 20000		47.7 77.7	60.7	59.7 77.0	47.7 77.5	7.7	67.7	77.6	63.7 77.0	69.7 77.0	65.7 77.5	63.7 77.0	60.7 77.0	69.7 77.2		49.7
≥ 18000 ≥ 16000	74.0	??•.	77.0	77.0	77.	77.3	77.7	77.1 77.4	77.5	77.	77.0	77.0	77.0 77.5	77.	77.	77.
≥ 14000 ≥ 12000	* ( ?) * ( ?	17.3 .au.o	77.3	77.3	77 30. 3	77. T	77.3 80.3	77.3	77.3	77.3	77.7	77.3	77.3	77.	77.3	77.1
≥ 10000 ≥ 9000	1.0		85.0 85.0	89.U 86.D	35.0 35.0	55.0 55.0		05.0 85.0	5%. F	35	85.7		0.00 20.00	85 ·	55.3 13.0	51 el
≥ 8000 ≥ 7000	2.7	16.7	37.3	×7.7	87.7	37.7	1 - 1	97.7	67.7 58.3	87.1 83.3	e7.7	87.7	7.7	67.7 43.3	87.7 58.3	87.7
≥ 6000 ≥ 5000	4.	79.	39.7 33.7	9	97.0	19.1	87.0	79.8 20.5	37.0 93.0	89.2 90.0	37.3	30.0 30.0	65.3	59.5	60.0°	59.
≥ 4500 ≥ 4000	5 • 3 -5 •	49.3 90.3	97.0 91.3	50.5 51.7	91.7	501.3		%₹•3 %1•7	7 : 7	96.3	90.3	99.3 91.7	90.3 (1.7	÷1.7	90.3	2.03
≥ 3500 ≥ 3000	5 . 7 7 . 3	95.3	91.3 92.3		93.0	72.3 23.7	1 1	92.0 93.0	92.7 93.0	93.00 93.0	77.	97.1	47.00 47.00	93.4	97.0	0 7 . ·
≥ 2500 ≥ 2000	/ .	71.3 91.7	93.3	24.0	94.5	34.0	94.3	93.7	95.7	93.7	79.3	24.3	7 2 . 7 2 4 . 7	93.7	54. 7	93.7
≥ 1800 ≥ 1500	17.7	92. 93.3	91.7 95.1	95.7		34.3 3.7	<del></del>	96.3	94.7	76.3		24.7	26.7	94.7	94.7	21 7
≥ 1200 ≥ 1000	>3.7 50.	93.3	95.1 95.1	95.7 95.9	96.7	95.7 96.0	96.5	76.3	95.7	96.7		96.3 96.7	26.7		96.3	95.1
≥ 900 ≥ 800	59.5 59.3	93.7	95.5 95.7	95.3		96.3 96.3	96.7	96.7 57.0	97.7	77.4	97.5	96.7	35.7	97.		97.
≥ 700 ≥ 600	84.3 84.7	94.3	96.0	96.7 98.0	95.7	76.7	99.5	37.7	97.7			97.7	37.7	49.5	97.7	77.7
≥ 500 ≥ 400	50.7	95.3	97.7	98.0 98.0	98.3		100.7	<del></del>		79.7 100.C					99.7	
≥ 300 ≥ 200	त्य•१ स् <b>प•</b> 7	75.3 95.5	97	98.1	98.3	(9,	100.0	100.0	130.0		ניפו	193.0	100.0	100.5	100.6	50.7
≥ 100 ≥ 0	7. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.	95.3	97. 1 37. 1	98.€ 94.€	30.2	-	100.7 120.0					1			: 00 • 0 130 • 0	

TOTAL	NUMBER	OF	OBSERVATIONS	

### **CEILING VERSUS VISIBILITY**

### PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING	VISIBILITY (STATUTE MILES)															
(FEET)	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2%	≥ 2	≥ 1%	≥ 1%	≥ 1	≥ %	≥ %	≥ %	≥ 5/14	≥ ¼	≥ 0
NO CEILING ≥ 20000	50 . 4	51.0	61.A	52.2 55.6	62.4	2.4	57.0 68.9	47.5	65.9	52.5 60.9	67.5	63.5	67.9		62.5	5.7
≥ 18000 ≥ 16000	21.7 21.7	57.5	69.3	65.8 65.8	69.7	67.0 69.5	69.0	10.0 19.0	67.0	69.0	69.0 69.0	69.0 69.0	59.5	50.0	69.0	55. 57.
≥ 14000 ≥ 12000	- 4 • 6	68.0 70.5	71.0	69.3 72.1	65.5 72.5	19.3 72.4	69.5	49.6 72.5	57.6	67.6 72.5	69.6 77.5	60.5 72.5	60.6 77.5	55.6 72.5	59.6 77.5	67.6 7.46
≥ 10000 ≥ 9000	3 <b>U</b>	75.9 76.0	77.5	76.7	76.3	78.4 78.5	76.4	78 • 4 74 • 5	79.4	75.5	79.4	73.4 78.5	71.4	75.4	78.4	73.4
≥ 8000 ≥ 7000	71.3 71.4	78.9	50.5	+0.6	91.6	1.2	31.¥	A1.3	31.9	*1.3	81.3	F1.3	41.8	91.3 81.8	91.3 31.5	91.0 51.6
≥ 6000 ≥ 5000	73.3	79.4	81.1	*1.8	83.8	3.7	93.4 83.0	97.5 3.9	97.4 93.9	82.5 93.5	82.5	87.5 83.7	27.5 57.5		87.5 53.9	
≥ 4500 ≥ 4000	73.7	23.5	43.2 54.7	85.5	35.0	74.4 76.1	84.5 96.1	34.6	64.6	94 . t 90 . 2	#6.6 66.8	74.5	94.6 88.2	86.2	94.2	74.t
≥ 3500 ≥ 3000		94.5	85.8	87.7	57.1 38.1	78.2	87.2	97.3 98.4	37.1	87.3	37.3 59.4	67.3	97.3	F8 . 4	67.3 64.4	88.L
≥ 2500 ≥ 2000	7.7	85.6	80.7	50.7	89.2 90.5	29.3	37.4	89.5 91.0	89.5 71.0	91.5	91.5	89.5	23.5	69.5	91.5	71.
≥ 1800 ≥ 1500	74.3	17.2	91.	90.3 92.1	93.8	63.9	93.5	33.3	97.7	71.4	93.3	91.4	43.3		97.3	61.0
≥ 1200 ≥ 1000	7 7 . 0	70 s	93.3 93.3	94.3	94.6	95.3	95.6	94.7 95.8	95.0	75.8	94.7	94.7	54.7 57.5	95.5	94.7	3
≥ 900 ≥ 800	0.0 	71.2	93.8	95.0	96.7	95 · S	75.9	76.9	76.0	96.9	66.0	96.9	24.9	95.4		96.1
≥ 700 ≥ 600		91.7	94.1		76.8	27.1	97.2	77.4	97.0	97.4		98.1	97.5	97.5	97.5	97.5 9E.
≥ 300 ≥ 400	• 1	92.7	04.7	96.8	97.7	78 • 7	99.1	99.3	98.5	06.4		99.9	79.5	99.5	99.5	99.9
≥ 300 ≥ 200		V2.3	95.0	96.5	92.	96.4 98.4	99.3	59.6	79.5		90.9	79.7	99.9	99.0	100.6	
≥ 100 ≥ 0	, . , .	95.1	99.7 95.0	95.5 5.5	98.0	175 . 4 1-5 . 4	99.3	99.6 99.6	99.6 79.6	99.8	99.9	99.9	99.9		100.0	

TOTAL NUMBER OF OBSERVATIONS

### **CEILING VERSUS VISIBILITY**

### PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING	VISIBILITY (STATUTE MILES)															
(FEET)	≥ 10	≥ •	≥ 5	≥ 4	≥ 3	≥ 2%	≥ 2	≥ 1%	≥ 1%	≥ 1	≥ %	≥ %	≥ 4	≥ 5/16	≥ ५	≥ 0
NO CEILING ≥ 20000		2.4	7:05	7 . 7 72 • L	72.4	70.7	70.7	71.7	70.7	70.7	70.7	72.7	77.7		7 .7	7. 4
≥ 18000 ≥ 16000		72.4	77.0	72.6	7.06	72.6		72.6	72.6	72.6	72.6	72.0	77.6	72 oc 72 oc	72.6	77.00
≥ 14000 ≥ 12000	7, 9	72.9 [4.2	72.9	77.0	77.9	72.4	72.9	72.9	72.6	72.7	72.9	72.9	77.7		77.0	7
≥ 10000 ≥ 9000	7 1	72.4 78.7	7:.7	7, 44 74.7	73.4	78.4	77.4	70.4	77.4	75.4	78.4	72.4	70.4	78.4 78.7	70.7	70.4
≥ 8000 ≥ 7000		73.9	83.4	33.	7 ° 0	`₹.9 :3.9	67.7	63.9	43.0 43.0	97.0	87.9 2.5	53.7	81.9	97.4	97.01 33.7	42.0 77.0
≥ 6000 ≥ 5000	5 a t	45.4	94.8 87.7	b	54.8 85.5	-4 • d	35.8	° 4 . A	84.3 85.8	34.5	84.E	54.8 35.8	94.8 25.8		24.5 5. 9	ξ <b>4.</b> ξ 81.8
≥ 4500 ≥ 4000	5.7	*5.3	46.3		36.1	7.1	27.1 69.1	35.1	67.1	F7.1	37.3	27.1	57.1	77.1 68.1	28.1	F 1
≥ 3500 ≥ 3000	*	27.7	87.7	84.C	60.4	50.4	89.7	38.7 89.7	68.7 67.7	89.7	35.7	87.7	89.7	84.7	69.7 59.7	B 9 . 7
≥ 2500 ≥ 2000	36.	90.	90.0	21.6	91.5	71.9	97.3	91.0	35.3	92.5	91.3	77.5	51.0 52.3	92.3	72.3	71.3
≥ 1800 ≥ 1500	1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	91.4 53.3	91.4	97.9	94.2	70.2	94.5	20.5	94.5	72.6	94.5	92.6	67.6 64.5		94.5	04.5
≥ 1200 ≥ 1000	7.7	94.2	74.2 95.2	04.6 5.8	96.1	16.2	76.5	76.5	95.5		46.5	95.5		95.5	96.5	
≥ 900 ≥ 800	13.4 13.3	95.4	95.6	26.5		06.1	96.5	27.1	97.1		96.5	97.1	95.5 57.1	97.1		97.1
≥ 700 ≥ 600	3 . 3	25.8	95.4	96.5	77.1	57.1 58.1	97.4	27.4 38.4	97.4 78.4		95.4	97.4	\$7.4 \$3.4	98.4	97.4	34.4
≥ 500 ≥ 400	3.6	15.1	95.1	97.7		78.7	99.4	39.4	69.4 69.8	79.4	30.7	99.7	99.7			76.7 49.7
≥ 300 ≥ 200	1 1	6.1	95.4	98.1 98.1	99.	79.	99.7	99.7	99.7		100.01	0.00	100.0	100.0		130.3
≥ 100 ≥ 0	3 • 7	7601	30.0		49.	19	99.7	-7.7	99.7		1 20 • 0	1		- 1		

TOTAL NUMBER OF	OBSERVATIONS	-	

### **CEILING VERSUS VISIBILITY**

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

VISIBILITY (STATUTE MILES) CRILING 214 214 ≥ 10 ≥ s ≥ 4 ≥ 2% ≥ % ≥ 5/16 > 6 NO CEILING ≥ 20000 66.8 67.1 67.1 (7.1 1.00 60.9 60.0 66.8 . 6 . F OA. 66.0 60.4 66.3 66. 60.5 t. b . ≥ 14000 ≥ 12000 67. ≥ 10000 ≥ 9000 77.3 72.5 72.3 77.3 72.3 72.5 ≥ 8000 ≥ 7000 ≥ 4500 ≥ 4000 1.1.5 81.5 11. 12.5 93.9 ≥ 2500 ≥ 2000 39. P7. 700 L 1800 42.6 91.9 1200 44.5 95. 54.5 900 7 94.5 96.8 97.1 14. 37.4 67.1 97.7 23.1 98.7 98.4 47.7 28. 99.4 57. 97.7 91.7 69. 95.8 98. 100

TOTAL NUMBER OF OBSERVATIONS

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### **CEILING VERSUS VISIBILITY**

STATION STATION NAME TEATS WEATS HONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

VISIBILITY (STATUTE MILES) CEILING > 4 ≥ 5 ≥ 3 ≥ 1% ≥ 1% ≥ 5/16 NO CEILING 57.4 ≥ 20000 ≥ 18000 ≥ 16000 27. 50.4 ≥ 14000 ≥ 12000 ≥ 10000 ≥ 9000 4.0.7 59. 50.7 68 a 1 /5. 75.8 ≥ 3500 ≥ 3000 76.5 ≥ 2500 ≥ 2000 90.3 79. 79. 31.3 ×1.5 81. 1.0 61.3 <u>≥</u> 1800 1500 FU.7 51.0 1.2 36.€ 57.1 27.1 97.1 56.0 57.1 37.1 7.4 87.4 37.7 40.7 29.7 1200 69.7 B9.7 31.6 91.5 91.4 91.4 51.9 92.3 92.3 92.5 92.6 21.0 21.9 1.9 97.3 77.6 41.9 72.5 24.4 76 . A 75.5 60.1 700 600 20.2 97.1 3 C . \$7.1 97.1 28.1 95.4 .1. 39.4 95.1 98.1 23.4 28.4 97.4 05. 33. 41.3 17.7 98.4 99.7 49.7 98.7 94.8 05.1 77.7 :1. 98.4 98.7 98.7 F7.7 96.4

TOTAL MIMBER OF ORSERVATIONS	

### **CEILING VERSUS VISIBILITY**

# PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING							VIS	IBILITY (ST	ATUTE MIL	.ES)						
(PEET)	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2%	≥ 2	≥ 1%	≥ 1%	≥ 1	≥ 4,	≥ %	≥ %	≥ 5/16	≥ ¼	≥ 0
NO CEILING ≥ 20000	47.4	55.5	56.1	53.0 €6.5	57.7	7.4	54.0	57.4	57.4	54.2 57.4	94.2 57.4	54.2	54.2 57.4	57.4	57.4	57.4
≥ 18000 ≥ 16000	-1-7	55.8	54.5	Ευ. # 50. #	57.4	27.7	57.7	57.7	57.7	57.7	57.7	57.7 57.7	57.7	57.7 57.7	57.7	57.7
≥ 14000 ≥ 12000	45.4	55.4	51.5	50.6	59.8	57.7	57.7 59.7	47.7	57.7	57.7 54.7	57.7	57.7	50.7	57.7	57.7	59.7
≥ 10000 ≥ 9000	94.5	54.5	64.5 65.2	55.2 55.8	65.8	66.1	55.1 65.8	66.1	65.1 55.5	56.1 60.3	65.1 65.3	65.1	55.1 55.8	66 . 1 66 . 8	66.1	
≥ 8000 ≥ 7000	5 - 1 1 - 4	8.1	7	67.8 73.7	70.0	70.3	70.3	70.3 71.6	70.7	7.1.3	71.6	70.5 71.6	71.0	71.0	77.3	71.6
≥ 6000 ≥ 5000	20.7	37.7	7 .3	71.	71.5	71.7	71.5	71.9	71.9	74.5		71.9	71.5	71.5	71.7	71.5
≥ 4500 ≥ 4000	1.	72.5	73.6	74.2	76.4	3.2	75.2	73.2 75.8	75.07	7 . 2		75.2	75.0	75.2	75.7	1
≥ 3500 ≥ 3000	3.0	73.6		78.5		76.5	75.5	76 - 5 77 - 7	79.5	76.5	76.5	75.5	75.5	76.5		77.7
≥ 2500 ≥ 2000	4 · 7	76.5	77.7	70.7 90.3	77.4	79.7	79.7	79.7	76.7 5).7	79.7	77.7	31.5	75.7	-1.3	70.7 ±1.7	70.7
≥ 1800 ≥ 1500	57.7	01.0	37.3 36.8	83.2	89.0	94.2	89.4	4.2	34.2	64.2 80.4	-	39.4	69.4	64 . 2 29 . 4	39.4	89.4
≥ 1200 ≥ 1000	1.	^6.5 57.1	89.4 89.4	91.9	31.A	71.9	91.0		21.0	71.7 93.5	21.0	91.9	31.¢	21.9	91.0 93.6	33.0
≥ 900 ≥ 800	71.6	57.7 58.1	30.7	\$2.6 93.2	93.0 94.5	74 . 2 74 . 8	94.2	94.2	94.7	94.2	94.2	94.0	14.2 94.3	7 <b>4.</b> ₽		94.2
≥ 700 ≥ 600	11.9	18.7	91.0	58.9 94.8	96.8	·5 · · ·	97.4	75.8	95.5	99.6 97.4	95.3	95.3	97.4		97.4	97.0
≥ 500 ≥ 400	71.6	48.7	91.3	95.2	57.4	98 - 1 98 - 1	98.1	70.1 93.1	98.1	98.1	\$0.0)	97.0	97.1 99.5	74.1	99.1	9 ]
≥ 300 ≥ 200	71.6	38.7	91.3 91.3	95.2 95.2	97.4	*8 · 1	99.1 99.4	38.4	92.4	98.4	99.4 190.5	- 1	75.4 190.0	9.4 100.0	9 <b>9.</b> 4	
≥ 100 ≥ 6	71.4	8.7	91.5	95.2	97.4	98.1	98.4 98.4	98.4	75.4 75.4		ર :: :: :: ::				100.0 100.0	

### **CEILING VERSUS VISIBILITY**

# PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING							VIS	IBILITY (ST	ATUTE MIL	.E\$)						
(FEET)	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 21/2	≥ 2	≥ 11/4	≥ 1%	≥ :	≥ ¥	≥ 4,	≥ %	≥ 5/16	≥ 1,4	≥ 0
NO CEILING	1 - 4	٠, ٠	5 2 . 4	60.4	30.6	19.5	30.4	1.7.4	5 } L	1.7 <b>a</b> H	57.4	54.4	17.4	72.4	54.4	
≥ 20000	. 2 .	63.4	54.2	64.2	64.2	4 . 1	54.7	44.2	44.7	F 11 9 2	494.2	64.2	10.2	24 .	54.	
≥ 18000 ≥ 16000	1.0	13.4	61.2	54.2 54.2	54.7	14.3 14.3	64.7	14.2	54.7 54.2	54.2	64.7	54.2	54.7	7 م به ن ام اه اه	64.2	( 4 a
≥ 14000	7	14.7	94.5	64.5	64.5	44.5	8,4.5	£ & , C,	6,4	64.5	54.5	64.5	64.5	F4: . E	84.5	6, 44
≥ 12000	10.00	<u> </u>	65.0	65.8	200	35.3	5 E . 3	45.3	الموزي	\$ 500	55.2	65.5	4. g p	1500	55.3	<u> </u>
≥ 10000 ≥ 9000	_ 6 ° • 4 	70.7	71.5	71.3	71.3	71.3	71.5	71.3	71.3	71.7	71.3	71.7	71.3	71.5		71.
≥ 8000 ≥ 7000	33.	71.9	77.1	72.6	72.6	72.6	77.6	72.6	72.6	72.5	72.6	72.6	72.5	77.0	77.4	7.
<del></del>	57.	72.	77.c		73.3	*3.7	23.2	73.7	73.7		17.2					7
≥ 6000 ≥ 5000	4	73.2	73.0	73.9		75.5	75.3	1		73.0	- 1	73.9		75.9 75.8	1	<b>+</b> -
		73	71.1		74.5	76.5		16.	74.5		76.5	7 5 . 5				7
≥ 4500 ≥ 4000		16.5	77.1	77.4	77.4									77.4	,	
≥ 3500	* 7 . *		74.7	79.0	79.0	79.0	77.	74.	77.7	77.1	74.	79.	75	70.	70.5	7 %
≥ 3000	7	4.2	44.5	5.2	35.2	5.6	15.2	33, 3	65.7	2 . 2	15.2	35.2	- × • 2	35.2	25.2	
≥ 2500	• 7		3/.7	44.4	19.2 . 4	13.4	88.4	38.4		2 8 . 4	35.4	A9.4	-5.4	4 4	بهيهرا	
≥ 2000		19.1	15 . 7	/ • 3	20.3	17.7			77.		, ; • <u>₹</u>				·	
≥ 1800 ≥ 1500	3.•		91.1	91.6	21.6	1.5	91.6		-1.4	31.0		_			31.5	21
		7: • 8		74.2	34.5	94 2	74,5				64.5	<del></del> -	24.5			
≥ 1200 ≥ 1000	4 . 2	43.0	30.5	\$4 a pt	95.2	75.7 75.9	95.5	' '		75.5	95.5		61.5   36.1	45.6	36 • 1	
	4.6		94.		e6.1	76.1	96.5			54, 6			<u> </u>		31	= =
≥ 900 ≥ 800		34.7	99.	y 6 - 5	96.P	26.8	97	07.1	27.1	97.1	,	7 1	77.1	27.1		
<del></del>		24.	3 % . 5	10.8		7.1	77.4					0			.7.4	
≥ 700 ≥ 600			91.5	97.7		. 4	90.7				78.7	0 . 7		53.7	79.7	2.7
≥ 500		500	9:05	37.7	04.7	3.7	96	7.7	79.0		្ន ។	99.7	09.0	U 9 . !	.00	90
≥ 400		25.2	91.05	7.01	20.4	49.4	20.7	^0,7	90.7		22.7	09.7	20.7	09.7	39.7	: 9
≥ 300			7005	98.1	99.4	9.4	99.7	1 C.1	100.0		156.0	100.1	160.0	100.0	100.0	130
≥ 200	.5.3	15.2	96.5	21.1	94.4	79.4				106.0	1 un • 0	100.0			130.0	1
≥ 100	203	+5 + 2	35.5	- 1	79.4					100.0		100.0			129.0	-
> 0	100	44 4.7	16.5	33.1	26.8	7.4	00.7	أداء والا	11-1-1	li aa 📶	100 2	1 3.0	bereit Line	200	n abian	

TOTAL	HUMBER	O.F	OBSERVATIONS	:
10176	- CHIEF	ν.	A4454 . WILDING	 ٠.

### **CEILING VERSUS VISIBILITY**

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

VISIBILITY (STATUTE MILES) CEILING (FEET) ≥ 11/4 | ≥ 11/4 ≥ 10 ≥ 21/2 NO CEILING ≥ 18000 ≥ 14000 ≥ 12000 ≥ 10000 ≥ 9000 ≥ 8000 ≥ 7000 6000 5000 <u>≥</u> 4500 4000 3500 3000 ≥ 2500 ≥ 2000 1800 96.8 1500 26.0 1200 900 800 58.7 99.0 93. 7.1 97.7 > 700 600 ₹9. V7.7

TOTAL NUMBER OF OSSERVATIONS

## **CEILING VERSUS VISIBILITY**

# PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING							VIS	IBILITY (ST	ATUTE MIL	ES)						
(FEET)	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 21/2	≥ 2	≥ 11/3	≥ 1%	≥ 1	≥ %	≥ %	≥ %	≥ 5/16	≥ %	≥ 0
NO CEILING ≥ 20000	11.2	49.7 74.5	65.7 74.5	44.7 74.5	67.7 74.5	74.5	69.7 74.5	63.7 74.5	67.7	69.7	69.7	59.7	14.5	57.7	49.7	74.5
≥ 18000 ≥ 16000	7	74.5	74. 2	74.5	74.5 74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5		74.5	74.5	74.5
≥ 14000 ≥ 12000		75.4	75.5	77.7	75.5	75.5	75 · 5	75.5	77.5	75.5	79.5	75.5	7 7	+	75.5	70.5
≥ 10000 ≥ 9000		41.3		61.6	51.6	1.6	81.6	-1.5	1.6	11.6 47.5	31.6	#1.6	.1.6	<del></del>	61.5	
≥ 8000 ≥ 7000	2.3	73.8 33.6	1 1	64.7	94.7	°4.2	94.7	4.7	54.7 24.7	84.2	54.2	94.3 94.3	54.2	34.2		0 H . C
≥ 6000 ≥ 5000	\$ • °	14.2	44.5	57.4	85.2	15.2 8.1	\$1.2 88.1	95.2	84.1	35.2	45.2 89.1	25.2 48.1	. 1 . 2		-5.7 38.1	
≥ 4500 ≥ 4000	5 • u • 1	-6.4 47.7	87.1	67.4 88.7	89.7	23.4 59.7	88.4 39.7	88.4 99.7	39.7		A5.4	27.1	39.4	PA.4	57.7	5 F . W
≥ 3500 ≥ 3000	7 . U	78.1		59.0 90.0	71.0	*1.0	97.0	ಳಿದೆ.ವ ಆ1.0	90.0 01.0		31.0 91.0	90.7 91.2	37.0	2C.	90.0	9/ . ^ 4]
≥ 2500 ≥ 2000		1.3		02.6	93.5	75.6	93.6	72.6	93.6 98.1		43.6 46.1	98.6	23.6 +6.1	93.t	6.1	67.0
≥ 1800 ≥ 1500	) <u>1</u>	73.6	94.5	94.5 96.1	95.5	97.1	96.5	96.5 97.1	76.5 77.1		96.5	96.5	96.5 97.1	96.5	97.1	47.1
≥ 1200 ≥ 1000	71.5	74.5 95.2		94.5	97.4	07.4	97.4	97.4	97.4	97.4	93.4	97.4	77.4	97.4	97.4	97.4
≥ 900 ≥ 800	11.7	25.2	95.1	97.1	93.1	49.D	69.3	73.1 99.0	99.1	99.0	98.1	96.1	50.1 00.5	68.1	35.01	
≥ 700 ≥ 600	12.3	76.1	97.1	98.1 98.4	99.0	49.0	99.4	99.4	99.4	99.4	49.4	77.1		, - ,	99.0	99.0 09.4
≥ 500 ≥ 400	· ? • 5	45.5	>7.4 >7.4	95.4 95.4	64. A	^Y.4	97.4	99.7	99.7	59.7 133.9	99.7	99.7	.9.7 (00.3	29.7 1:0	99.7	70.7
≥ 300 ≥ 200	2.3	16.5		96.4	97.4	9.4		1 00.0 1 16.0		100.0	1			100.0	_	
≥ 100 ≥ 0	2.5	6.5	97.4	95.4	99.4	9.4	97.7		- 1	190.5		1		F - 1		

TOTAL NUMB	ER OF ORSE	RVATIONS	- 1	ι'

### **CEILING VERSUS VISIBILITY**

# PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING	VISIBILITY (STATUTE MILES)															
(FEET)	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 21%	≥ 2	≥ 14	≥ 1%	≥ 1	≥ %	≥ %	≥ %	≥ 5/16	≥ ¼	≥ 0
NO CEILING ≥ 20000	7	1		73.7	74.9	?3.≈ 79.u	73.9	73.9	73.5	73.9	77.0	73.5			75.9	
≥ 18000 ≥ 16000	7 . 4	78.7		70.0	70.0	79.0	79.5	70.0	79.	79.0	70.0	75.	70.0	***		3.50
≥ 14000 ≥ 12000			96.7 31.0	7	79.0	70.5	79.5	76	70.	74.	77.	74.7	73.5		70	
≥ 10000 ≥ 9000	3.0	7 5 6 7		54.1 55.1	45.1		36.1 86.1	15.1	65.1 75.1	85.1	26.1	86.1	85.1		86.1	P. 6. 1
≥ 8000 ≥ 7000	7.7		37.7	87.7	37.7	47.7	P7.7	37.7 99.0	87.7 99.3	57.7	87.7 89."	P. 7 . 7	9.7			
≥ 6000 ≥ 5000	- 1	19.4	39.7	67.7		89.7	89.7	99.7	89.	9 . 1	97.7	39.7			89.7	71.4
≥ 4500 ≥ 4000		1 . 5			91.6	12.3	91.6	91.6	91.4	77.6	22.7	92.5	41.	61.6	51.5	7 <b>1.</b>
≥ 3500 ≥ 3000		17.5	97.6			12.5	92.4	92.9	92.6	92.6	97.6	92.9	30.0	72.6	97.9	6.0
≥ 2500 ≥ 2000	7.	3.2	93.7 95.1	93.9 95.8		73.4	95.5		75.5	93.9	45.0	95.3	, , ,	ি <b>উ</b> • ৪   ২১ • ৪	95.0	,,,
≥ 1800 ≥ 1500	7.0	24 € 1 15 • 3	95.1	96.1 90.8	95.2	76.1	96.1	6.1 77.1	96.1 97.1	77.4	97.4	97.4	77.4	76 . 1 77 . 4	96.1 97.4	76.2
≥ 1200 ≥ 1000		6.1 38.5	96.3	97.9	97.4	7.7	07.7		77.7	99.1 59.4	99.1	36.4	6.3.4	96.1 18.0	34.1	98.8 87.4
≥ 900 ≥ 800	3.	16.	97.4	98.1	96.1	78 - 1 78 - 1	95.4 58.4	01.4	98.4	96.7	40.7	93.7		1	99.7	1
≥ 700 ≥ 600	*	7.1	97.7 97.7	99.4 93.4	94.7 94.7	78.7	90.	79.8	33.	00.4 00.4	00.4		30.00 20.00	!	99.4	1 - 1
≥ 500 ≥ 400	3 • 3 3 • 3	7.1	97.7	78.7 49.0	79.0 79.4	79.0	99.7		- 1	99.7 100.0		49.7		1	09.7 130.7	1 - 1
≥ 300 ≥ 200	73.4	27.4 27.4	98.1	70.7		19.4	39.7	19.7	12.7	100.0 100.0	ם.פני	lan.a	100.0		100.0	ton.
≥ 100 ≥ 0	3.0	:7.5 :7.4		00.5 30.Ω	99.4	79.4	99.7	·9.7	- 1	175.0 170.7						

DTAL	NUMBER	OF	OBSERVATIONS	 ١,	زدا

### **CEILING VERSUS VISIBILITY**

### PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

VISIBILITY (STATUTE MILES) CEILING (FEET) ≥ 10 ≥ 5 ≥ 4 ≥ 21/4 ≥ 1% 1 ≥ 1% ≥ \* ≥ % ≥ 5/16 NO CEILING . 3. 7 . 3.7 63.7 43. 43.5 43.5 ≥ 20000 £7.5 ≥ 18000 ≥ 16000 67.6 67.6 87.7 67.8 1.7 . B 6 ? . E 67.9 67.9 67.9 67.4 67.5 ≥ 14000 ≥ 12000 74.3 ≥ 10000 ≥ 9000 ≥ 8000 ≥ 7000 ≥ 6000 ≥ 5000 31.3 1.9 61.9 1.3 41.1 36. 86.1 ≥ 2500 ≥ 2000 87.5 97.5 37.9 87.9 68 . 1 99. F.7. 0.5 40.3 11.0 61.7 5 k • 0 91.3 1. 91.1 1500 53.1 93.7 7.2 .4.6 74.0 94 . F 1200 1000 24.2 94 .5 65<u>. .</u> 94. 95.7 95 A 45 4 9000 94.3 75.1 75.3 45.9 96. 95.1 25.1 900 800 95.0 77. 97.1 97.1 77.8 -7.4 35.9 ..8 33. 99, 00.7 07.4 94.2 97.7 . B . # 79.9 99.5 100

TOTAL MILMRER OF CREERVATIONS	7 😘

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## **CEILING VERSUS VISIBILITY**

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING							VIS	BILITY (ST	ATUTE MII	.ES)						
(FEET)	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 216	≥ 2	≥ 11/2	≥ 1%	≥ 1	≥ ¥	≥ %	≥ %	≥ 5/16	≥ 1/4	≥ 0
NO CEILING ≥ 20000	1.7	52.5 54.7	62.0	62.0 64.3	67.7	42.7 25.3	62.7 65.0	42.7	67.7 53.0	62.7	62.7 65.0	52.7 65.0	62.7 4".0	52.7 55.7	52.7 64.0	6.4
≥ 18000 ≥ 16000	3.3	14.3	64.3	64.3	65.0	65.0	65.0 65.0	45.8	55.0 65.7	65.0	45.5	55.0 65.0	⊼°•€ ₹5•€	65.C	65.2 65.4	65.5
≥ 14000 ≥ 12000	/3.3 /4.7	54.5	64.3	64.3 65.0	65.7	45.3 65.7	65.0 65.7	65.0 65.7	55.7	65.7	65.0 65.7	55. T	55.7	65.5 55.7	65.7 55.7	65.1
≥ 10000 ≥ 9000	-6.7	68.0	5° • 0	66.0 65.0	l . 'I	68.7	68.7 64.7	63.7	63.7	64.7	60.7	63.7	65.7	68.7	68.7	58.7 UK.7
≥ 8000 ≥ 7000	1,3 € °	70.3 71.3	77.3	70.2	71.0	71.7	71.0 72.0	71.0 72.0	72.7	71.0	71.7	71.0	71.0	71.	71.7	71.
≥ 6000 ≥ 5000	73.7	72.3	72.0	72.0	72.7	72.7	72.7	*2•?	72.7	72.7	77.7	72.7	72.7	72.7	72.7	77.7
≥ 4500 ≥ 4000	* 4 • 5	75.7	75.7	75.7	76.3	76.3	76.3 76.3	76.3 76.7	76.7	76.3 76.1	76.3 76.7	74.3	75.3 76.7	76 • 7	76.7	76.7
≥ 3500 ≥ 3000	75.7 77.1	77.0 78.7	77.0 78.7	77.0	77.7	77.7	77.7	75.7	78.7	79.7	76.7	70.7	75.7	76.7	74.7	7 . 7
≥ 2500 ≥ 2000	7 . 3 1 . 7	91.3	81.3	67.3	, ,	51.7 e4.2	31.7 54.0	62.6 4.3	62.0	54.3	87.7	82.0	34.3	32. 34.3	5?. `	: 2 • · · ·
≥ 1800 ≥ 1500	4.7	94.3 96.3	64.3 84.3	34.3		≥5.0 ≥7.	85.0 87.0	15.3 77.3	55.3 57.3		95.3 27.7	65.3	a ** • \$	7.3	25.3 107.3	97.
≥ 1200 ≥ 1000	7.	88.3	83.3 ♥3.0	39 <b>.7</b> 85.≴	89.3	49.3	_	69.7	60.7	57.7	36.7 91.7	89.7	87.7	59.7	80.7 41.7	37.7
≥ 900 ≥ 800	7.7 8.5	01.3	91.5	91.7 92.0		72.7 73.3	92.0	73.1 93.1	93.7	95.2	93.7	93.0 53.3	43.3	93.5 93.5	93.3	93.1
≥ 700 ≥ 600		93.3	97.7	92.7	43.3	03.7 35.7	94.0	-	96.3	96.3	96.3	74.3 76.3	96.3	96.3	94.3	51.
≥ 500 ≥ 400	30°J	93.3	93.7	04.3 45.3	97.3		95.3	98.7	97.3 98.7	98.7	57.3 48.7	97.3 94.7	ଦ୍ୟ 🔻	97.3 98.7	97.3	97.7
≥ 300 ≥ 200	37.7	92.7	94.3	65,3		77.7		99.3	99.7 1.66	99.5	99.9 99.3	99.3	9.3			99.5 106.0
≥ 100 ≥ 9	87.1	93.7	94.3	95.3			98.3		99.7 49.7	99.	99.3	99.3		100.0		100.4 100.0

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### **CEILING VERSUS VISIBILITY**

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING				<u>-</u>			VIS	IBILITY (ST	ATUTE MIL	ES)						
(FEET)	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 21%	≥ 2	≥ 1%	≥ 1%	≥ 1	≥ %	≥ %	≥ %	≥ 5/16	≥ 14	≥ 0
NO CEILING ≥ 20000	4.7	35 • 3	55.3 57.7	- 1	57.7	5 · 3		75.3	95.7 57.7	55.7	55.3 57.7	55.3 57.7	50.7	55.7 55.0	56.5	56.0
≥ 18000 ≥ 16000	7	7.3	57.7 57.7	57.7 57.7		57.7.	57.7	57.7 57.7	57.7	57.7 57.7	57.7	57.7	9.00 3.0	\$3.0 36.0	56.3 58.3	5 4 . 3 5 4 . 3
≥ 14000 ≥ 12000	5 . 7	17.3	57.7 58.0	57.7	57.7 53.0	57.7	57.7 58.0	57.7	57.7	57.7	57.7 53.7	57.7	50.0°	58.3	58.3 58.7	79.7
≥ 10000 ≥ 9000	50 . 7	59.7	60.0	60.0		40.0 60.0	\$0.0 60.0	57.0 50.0	69.0	62.0 62.0	60.0	60.0 60.0	60.3	50.3 50.3	60.7	61.7
≥ 8000 ≥ 7000	-1.7	63.7	63.3 55.1	63.3 65.0	63.3 65.0	65.3		65.0	63.3 95.0	63.3 65.5	67.3	63.3 65.0	57.7	53.7 55.3		44."
≥ 6000 ≥ 5000	14 o 1	55.5	65.7 68.3	65.7	45.7	65.7 68.3	45.7	54.3	65.7	55.7	65.7	65.7	66.0	66.0 68.7	56.3	50.5
≥ 4500 ≥ 4000	67.3	69.3	60.7 70.0	69.7 75.6	69.7	10.U	69.7 70.0	49.7 70.0	59.7 70.0	76.3	7	59.7 75.0	73.0	70.0 70.3	70.1	70.3
≥ 3500 ≥ 3000	73.7	70.0	70.7	70.7	75.3	73.7	72.7	70.7	73.7	70.7	77.7	73.7	71.0	71.0		71
≥ 2500 ≥ 2000	75.3	74.	75.3	75.3	75 • 3 7 • • 7	75.3		75.3 74.7	75.7	75.3	75.5	75.5	75.7	75.7		76. 91.3
≥ 1800 ≥ 1500	74.7 77.7	43.1	81.7	61.0 84.0		1.0	91.il	3.1°C	61.0 34.0	21.0 24.0		\$1.0 84.0	01.3	41.3	61.7 24.7	31.7
≥ 1200 ≥ 1000	7:.7	85.7	55.7 87.7	56.3 E8.3	86.3	68.7	96.3 48.7	36.3 88.7	96.7	36.3 88.7	45.3 88.7	96.3	34.7 80.3	50.7 20.0	87.7	67.7
≥ 900 ≥ 800	3.7	97.3		91.3	6".7	29.7	89.7 97.7	99.7 92.0	92.7	89.7 92.0	69.7 92.Ω		9° . 0	90.0	98.4 92.7	91.3
≥ 700 ≥ 600	3.7	75.3	91.7	91.3		~1.7 ~2.3	92.3	12.3 23.6	93.3	12.3 13.0	92.3	93.0	97.7	92.7 93.3	93.7	93.7
≥ 500 ≥ 400	14.7	91.0	92.3 92.7	73.3 95.7	1 1	.3.7	94.7	74.7 76.0	94.7	74.7	94.7	96.0	95.5	95.0	75.3 96.7	95.7
≥ 300 ≥ 200	4 . 7	91.9	97.7	24 . C		05.3 05.7	97.3	97.3	97.7	57.3 96.3		97.3	47.7	97.7 98.7	99.3	96.0 99.0
≥ 100 ≥ 0	4.7	71.0	92.7	94.0	95.7	°5.7	98.0 98.0	94.3		95.3			97.0			

TOTAL NUMBER OF OBSERVATIONS

### **CEILING VERSUS VISIBILITY**

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

VISIBILITY (STATUTE MILES) CEILING ≥ 10 ≥ 5 ≥ 2% ≥ 1% ≥ 1% ≥ 5/16 NO CELLING 55.7 55.7 55.7 ≥ 20000 65.7 55. 35.47 55.7 ≥ 14000 ≥ 12000 50 . 7 . 6 . 3 50 . 3 56.3 56.3 56.3 56.3 56.3 50 19.0 57.0 59. 59. 59.0 02. 42.0 6200 8000 7000 43.7 63.7 63.7 63.7 13.0 63.7 -3.7 53.7 43.7 £3.7 64.3 +4.3 14. 6.4 66 . 1 66.0 65.0 .0 67.0 67.0 67.7 69.7 69.7 64.0 67.7 69.7 60.7 A4.7 67.7 64.7 69.9 67.7 3500 3000 72.1 72.7 72.0 72.0 72.0 71.7 71.7 72.0 72.2 72.3 72. 71.0 71.0 70.0 2500 2000 77.3 77.3 78.3 77.5 77.0 77.3 77.3 77.3 77.3 77.3 77.3 77.3 1800 31.3 82.0 "2.c 87.3 52.3 82.3 40.7 81.F 87. F2.3 33. 83.3 53.3 33.3 23.3 63.3 1200 45.3 46. 86.3 14.3 86.7 20.3 25.3 25.3 46.3 34. 8 26.6 28.3 88.3 38.3 38. 18 . 3 87.3 69.0 89.7 89.7 90.0 40.0 43.3 97.3 40.3 90.7 91. 91.7 31.7 42. 31.3 92. 92. -3.7 94.G 24.3 52.7 63.7 04 . C 74.5 C. D 4.0 94.3 63.7 26.0 26.0 96.1 76. 97.3 98.3 92.3 99.3 59.3 98.3 98.3 97.3 19. 66.3 96.7 97.3 44.3 96.3 98.3 93.3 99.0200.0

TOTAL NUMBER OF OBSERVATIONS

DIRNAVOCEANMET

## **CEILING VERSUS VISIBILITY**

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING							VIS	BILITY (\$T	ATUTE MILI	ES)						
(FEET)	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2%	≥ 2	≥ 1%	≥ 1%	≥ 1	≥ %	≥ %	≥ %	≥ 5/16	≥ ¼	≥ 0
NO CEILING ≥ 20000	41 4 3	45.0 50.3	45.7	40.7	52.	7.0	\$7.0 52.3	47.1 -2.3	47.7	47.0	47.3 52.3	47.7 52.3	47.0	47. 52.3	47.0	47.º
≥ 18000 ≥ 16000	4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	¤ŋ.n 83.3	51.7 51.7	51.7 51.7	52.3 52.3	12.3	52.3	12.3	52.3 52.3	52.3	52.3	52.3 52.3	37.3	52.3 52.3	52.3	52 . 3
≥ 14000 ≥ 12000	1 3 4 4 5 4 5 4 5 5 5 6 5 6 5 6 5 6 5 6 5 6	90.0 90.0	51.7 52.0	51.7 52.0	52.3	32.7	52.3	52.3 52.7	52.7	52.7	52.3 52.7	52.7	57.3 52.7	52.3 52.7	52.3	52.3
≥ 10000 ≥ 9000	चर • ३ • इ.च. ३	54 . 3	50.0 56.0	55.0	56.3 56.3	56.7	56.7 55.7	56.7 56.7	54.7 55.7	55.7 56.7	56.7 56.7	56.7 56.7	56.7 56.7	56.7 56.7	56.7 56.7	55.7
≥ \$000 ≥ 7000	)( . ?	57.5	52.7 60.5	50.3	50.0 60.7	'9.3	59.3 61.3	59.3 51.0	53.3	54.3 61.0	69.3	50.3 61.0	30.3	59.3	57.3	54.7
≥ 4000 ≥ 5000	7	54.3	61.3	61.3	64.3	62.	64.7	54.7	62.0 69.7	63.7	52.9	62.0 64.7	62.0 54.7	52.7	64.7	64.7
≥ 4500 ≥ 4000	7 و ځار 2 و ځار	52.7	64.3 65.0	64.3	64.7	65.0 66.0	65.0 66.0	65.0	55.0 56.0	65.5 66.0	65.7	05.0 56.0	6 .50 <u>86.65</u>	65.0 66.0	65.0 66.0	0500 6600
≥ 3500 ≥ 3000	30.68 30.63	43.7	65.0 65.3	65.0 65.3	66.3	69.3	60.3	57.5	67.7	67.3	57.3 67.3	67.3	67.0	67.	67.7	67.
≥ 2500 ≥ 2000	7 و دور <u>مفن</u>	58.0 70.5	70.7	76.7 73.5	71.0	71.7	71.7 74.0	74.7	71.7	71.7	71.7	71.7	71.7		71.7	71.7
≥ 1800 ≥ 1500	-107 -203	70.7 75.1	73.3	73.3 78.0	73.7	74 . 3	74.3	79.3	74.3	74.3	74.3 79.3	74.3 79.3	79.3	79.3	74.4	74.3
≥ 1200 ≥ 1000	7 <b>٠</b> ٠٠	76.3	79.3 83.3	F4.3	30.7	26.5	81.7	*1.7 25.3	81.7 80.3	81.7 56.3	51.7	31.7	61.7 56.3	81.7	26.3	36.7
≥ 900 ≥ 800		70.7	83.7	87.0	85.3	36.7 20.0	86.7 90.7	20.7	31.7	85.7	90.7	86.7	84.7	90.7	90.7	35.7
≥ 700 ≥ 600	>>• 1 , 5 • 1	11.0	96.7	88.0	84.3	91.0 92.7	93.3	93.3	91.7	91.7 93.5	91.7	93.3	91.7 93.3	93.3	91.7 93.3	23.7
≥ 300 ≥ 400	,5 e	82.7 82.7	83.3	90.5	93.5	74.0 54.7	95.7	96.3	95.7	95.7	95.7	95.7	96.7	96.7	55.7 98.7	27.1
≥ 300 ≥ 200	25 0 C	82.5 62.5	85.3	97.3	93.3	?5.0	96.0	97.0	97.0	93.0	98.3	28.0	98.5	98.5	98.0	78.7
≥ 100 ≥ 0	3.7	92.5	84.3	93.3	93.3	^5.3 3.3	96.0	77.0	97.0	98.3	98.3	98.3	94.3		98.3	99, ( []

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### **CEILING VERSUS VISIBILITY**

### PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING							VIS	HBILITY (ST	ATUTE MIL	.ES)						
(FEET)	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2%	≥ 2	≥ 1%	≥ 1%	≥ 1	≥ %	≥ %	≥ %	≥ 5/14	≥ ¼	≥ 0
NO CEILING	40.	52.	52.7	52.7	52.7 89.0	2.7	52.7 59.0	52.7 59.0	32.7 59.7	52.7		52.7	52.7	1 1	52.7	
	.5.3		57,6													
≥ 18000 ≥ 16000	5.3	50.1	\$ 3. F	59.03   49.3	50.0	49.0	59.0	59.3	50.0			59.3	59.5	59.5	59.7 59.3	1
≥ 14000	5.7	69.5	57.3	59.5		59.3	59.3	20.3	57.3			59.3	5.7.3	59.3	49.3	27
≥ 12000	*6.0	40.0	60.0			20.3	60.0	40.3		50.0	60.0		50.0		50.0	630
≥ 10000	14.7	4.2.7	62.7	82.7	67.7	62.7	62.7	12.7	62.7		62.7	62.7	67.7		62.7	
≥ 9000	54.7	62.7	62.7	42.7	62.7	62.7	62.7	.2.7	62.7	52.7	57.7	62.7	62.7	62.7	62.7	6.
≥ 8000	7.5	4 . C	61.0	44.6	64.0	04.0	64.0	64.5	64.5	64.0	64.	64.0	54.0	64.5	64.	64.
≥ 7000	3	15.3	65. 3	15.3	65.3	35.3	65.3	45.3	65.3	65.3	65.3	65.3	65.3	55.3	o 5	55.
≥ 6000	7107	15.7	65.7	65.7	65.7	65.7	65.7	45.7	55.7	65.7	45.7	65.7	6.0 . 7	65.7	65.7	2, 4,
≥ 5000		67.	57.3	£7.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	57.7	67.7	67.7	67
≥ 4500	1.30	67.3	57. 3	47.7	67.7	57.7	67.7	67.7	67.7	67.7	67.7	57.7	67.7	57.7	67.7	\$7
≥ 4000	3.0	69.3	63.3	72.0	7 3 . 3	70.3	70.1	*0.3	70.3	79.5	7 . 3	70.3	37.3	70.3	70.	7 ^
≥ 3500	37.3	71.7	71.7	72.3	72.7	72.7	72.7	72.7	75.	73.3	73.3	73.1	77.0	73.0	73.4	73
≥ 3000	73.0	75.0	75.0	75.7	76.0	76.0	76.0	76 . D	76.7	70.3	75.3	76.3	74.5	76.3	76.3	7+
≥ 2500	72.	77.7	77.7	74.3	78.7	78.7	78.7	75.7	79.0	74.0	77.	79.9	73.1	79.	79.0	79
≥ 2000	? • د '	79.3	72.3	50.3	20.7	60.7	50.7	AD.7	€1.^	31.0	31.3	61.3	81.40	11.2	51.	E 1
≥ 1800	74.3	6 L . 7	81.	12.7	32.3	2.3	87.3	7.7 • 3	02.7	82.7	82.7	32.7	27.7	62.7	82.7	8.3
≥ 1500	76.7	05.7	84.3	27.3	97.7	87.7	87.7	47.7	23.7	88.0	39.0	85.0	88.0	38.0		÷ e
≥ 1200	77.3	77.7	38.3	79.3	89.7	19.7	89.7	£9.7	9.00	73.7	70.0	90.0	41.0	40.00	A0.0	97
≥ 1000	73.0	69.0	90.3	91.3		<i>∴2.</i> 0	92.3	72.3			92.7	92.7			92.7	
≥ 900	7	49.7	31.4	92.3	35.1	.3.7	93.3	11	- 1		98.7		9.4	i (	93.7	
≥ 600	78.	40.7	97.3	¢3.3	94.0	*4.3	94.7			75.0		95.0			95.7	3 :
≥ 700	71.7	90.7	\$ \$ • M	34 . 0	75.0	75.5	95.7	75.7	96.3			46.3			¥6.3	,
≥ 600	74.3	41.7	97.3	94.7		_≎6 • Ω	96.7	36.7				97.3			97.3	
≥ 500	7.0.	91.3	93.7	95.3	96.7	77.0		77.7	98.0			98.3			98.7	Į
≥ 400	78.1	71.7	94.0	76.0	97.1	.7.7	96.3	38.3	99.7	99.3	20.3	39.5			99.7	
≥ 300	73.3	21.7	94.7	56.0	67.3	77.7	97.3	53.3			90.7	79.7				Į
≥ 200	70.3	71.7	79.	46.0		47.7	95.3	96.3		99.7	99,7	99.7				
≥ 100 > q	The	91.7	94.0			77.7								100.0		

OZAL NUMBER OF ORSERVATIONS	3.75

## **CEILING VERSUS VISIBILITY**

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PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

(FEET)	≥ 10						VIS	ibility (ST	ATUTE MIL	ES)						Ì
		≥ 6	≥ 5	≥ 4	≥ 3	≥ 21/2	≥ 2	≥ 1%	≥ 1%	≥ 1	≥ 4	≥ %	≥ %	≥ 5/14	≥ ¼	≥ 0
NO CEILING	35.7	F (	5e . 3	54.3	36.0	: > + 3	54.3	55.3	56.3	56.3	54.3	56.3	56.3	56.3	56.3	\$0.5
≥ 20000		45.	العنف	50.3	60.3	تعت	900 - 5	50.3	53.3	£ 0 a 3	60.3	60.3	£0.3	5C 3	60.3	5.102
≥ 18000 ≥ 16000		50.1	60.3	61.63 50.3	6.3	40.3 50.5	5.03 5.00	40.3	67.3	60.3 60.3	60.3	60.3 60.3	60.3 50.3	60.3 60.3	50.3 60.3	60.3
≥ 14000 ≥ 12000	59.7	60.7	40.7	6 7	67.7	50.7	67.7	AU.7	6 7 . 7	50.7	6~.7	63.7	61.7	60.7	60.7	65.7
<del></del>			61.3	21.3	61.3	12.3	51.3	51.3	46 7	63.3	69.3	65.3			61.3	6103
≥ 10000 ≥ 9000	- 4 . 3 - 4 . 3	65.3	63.3 65.3	45.3 65.3	65.3	55.3	55.3	65.3	55.3 65.3	55.3	45.3	65.3	67.3	65.3	65.3	65.7
≥ 8000	1. 0 a t	58.5	ŏ°•\$	60.3	68.3	13.3	63.3	63.3	63.7	65.3	68.3	68.3	50.3	68.3	68.7	58.5
≥ 7000	16.7	19.7	67.	69.7	67.5	69.3	64.3	59.3	69.3	69.3	69.3	69.3	69.3	69.3	69.3	50.3
≥ 4000	*.7 av	60.3	69.3	40.3	69.7	67.7	69.7	59.7	69.7	69.7	64.7	49.7	63.7	69.7	69.7	63.7
≥ 5000	+ 40.	73.5	71.3	71.3	71,7	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7
≥ 4500	79.9	72.5	72.0	72.0	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3	7	72.3	72.3	
≥ 4000	71.0	74.3	74.0			74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.5	74.3	
≥ 3500 ≥ 3000		77.0	77.0	77.0	• "]	77.3	77.3	77.3	77.3		77.3	77.3 81.3	77.3	77.3	77.3	77.1
	77.7	91.0	87.3	93.3	F1.3	13.7	84.0	1.3	24.0	84.0	61.3	84.0	E 4 3	34	84."	[ 9
≥ 2500 ≥ 2000	: 3	.5.3	86.3	56.3	35.7	ch . 7	87.2	7.0	87.0	87.3		87.0	27.0		57.	8
≥ 1800		96.7	80.7	86.7	97.	د. 7-	37.3	47.3	47.3		-	67.3	97.3	37.3		67.5
≥ 1500	-1.3	50.3	90.7	90.7	71.7	1.3	91.3	71.3	91.3	91.3		61.3	11.3	71.3	71.	51.
≥ 1200	1.3	31.1	71.7	92.0	92.1	32.3	92.7	72.7	52.7		92.7	52.7	97.7	42.7	67.7	
≥ 1000	11.	62	94.0	34.7	95.3	95.3	25.7	95.7	45.7	95.7	95.7	95.7	94.7	45.7	95.7	25.7
≥ 900	91.7	02.1	94.0	95.3	96.7	96.0	96.3	56.3	¥5.3	76.5		96.3	96.3	96.3	96.3	06.
≥ 900	32.0	73.3	94.7	76.Q	97.7	97.0	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.5	97.3
≥ 700	12.4	43.7	45.3	96.7	98.0	18.3	98.7	99.7	49.7	48.7	98.7	98.7	96.7	98.7	98.7	50.1
≥ 600	17.1	73.7	95.3	97.0		78.7	99.3	49.3	79.3	99.5	99.3	99.3	99,3	99.3	99.3	
≥ 500	:2.0	73.7	95.3	97.3	95.3	38.7	49.3	30.3	99.8	99.3	, , ,	99.3	44.5	99.3	99.	1 1 1
≥ 400	32.0	0	75.5	27.0	97.3	98.7	99.7	29.7	39.7	99.7	97.7	99.7	99.7	39.7	90.7	
≥ 300	ે 2 • પ	03.7	34.3	97.0	98.3	98.7	99.7	9.7	79.7	99.7	99.7	79.7	49.7	99.7	99.7	
≥ 200	· 2 • 6	03.7	95.3	97.	99.9	48.7	99.7	79.7	79.7	99.7	99.7	99.7	40.7	59.7	99.7	
≥ 100 ≥ 0	~2.u	3.7	95.3	97.3	94.3	48.7	99.7	79.7	99.7	99.7	99.7	99.7	99.7		100.0	

TOTAL NUMBER OF OBSERVATIONS

### **CEILING VERSUS VISIBILITY**

STATION STATION SAME

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PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

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CEILING							VIS	IBILITY (ST	ATUTE MIL	.ES)						
(FEET)	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 21/2	≥ 2	≥ 1%	≥ 1%	≥ 1	≥ ¥	≥ %	≥ %	≥ 5/16	≥ ¼	≥ 0
NO CEILING ≥ 20000	ಗಳ•್ಬ 57 ಗ	67.7	67.7	67.7	67.7	17.7	67.7	50.7 67.7	50.7	60.7	50.7	50.7 57.7	65.7	67.7	67.7	67.7
≥ 18000 ≥ 16000	67.7	67.7	67.7	47.7	67.7	67.7	67.7	57.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7
≥ 14000 ≥ 12000	5/.7	67.7	67.7		67.7	57.7	67.7	67.7	57.7		67.7	67.7	67.7	67.7	67.7	67.7
≥ 10000 ≥ 9000	7.0	70 · 1	70.3	70.3	70.7	70.3	70.7	70.3	7:33	70.3	7".3	75.3	77.8	30.3	77.5	
≥ 8000 ≥ 7000	73.7	71.0	71.0	71.0	71.0	71.0	73.0	71.7	71.0	71.C	71.5	71.0	71.0	71.7	71.	71.0
≥ 6000 ≥ 5000	72.3	74.	74.5	74.7	74.7	76.7		76.7	74.0 76.7		74.0	74.0	74.0		74.0	76.7
≥ 4500 ≥ 4000	78.0	75.2	78.7	75.18 80.7	78.7	74.0	78.0	78.5		73.0	78.7	70.7	7:00	79.0		76
≥ 3500 ≥ 3000	7 : . 7	82.3	82.3 63.0		87.3	52.7 83.5	82.7	82.7	82.7	42.7 83.3	82.7	82.7	57.7 87.7	82.7 83.3	82.7	67.7
≥ 2500 ≥ 2000	1.3	34.Q	87.0	85.0	89.0	35.3	95.3 83.0	25.3 F3.0	35.3	45.3 88.0	85.3	85.3	5	85.3	55.3	5 2 a 5
≥ 1800 ≥ 1500	32.	2007 8807	87. 4	27.7 90.0	91.0	8.3	88.3	9.3 1.0	48.3	33.3	38.3	88.3 91.5	91.0	86.3	24. T	88.3 21.3
≥ 1200 ≥ 1000	2.7	91.7	91.7	92.3	93.3	73.3	93.3	2.3	93.3 94.7	75.5	97.3	93.3	94.7	73.7	93.3	
≥ 900 ≥ 800	1.7	12.7 53.0	93.4	94.0	95.7	16.3	95.3	45.0		95.3	95.3	95.0	96.3	95 . 3 96 . 3	,	95.5
≥ 700 ≥ 400	5.7.7	·3.0	94.0	75.7	26.3	76.3	76.3	76.7	98.7	96.7	96.7	95.7	56.7	96.7	96.7	26.7
≥ 500 ≥ 400	3.7	- 5.7	94.7	95.0			98.3	79.0	99.0	99.5	39.0	99.5		99.3	99.3	99.
≥ 300 ≥ 200	3.7	63.7	94.7	96.0		18.7	99.7	79.3 99.3	99.3	97.7		99.7	39.7	99.7	39.7	29.7
≥ 100 ≥ 0	- 1 - 1	73.7	94.7	9600	97.7	38.7	98.7	79.3	09.7		100.0	100.0	100.0	100.0	100.0	130.0

TOTAL NUMBER OF OBSERVATIONS TOU

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## **CEILING VERSUS VISIBILITY**

### ERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING							VIS	IBILITY (ST	ATUTE MIL	ES)						
(FEET)	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2%	≥ 2	≥ 1%	≥ 1%	≥ 1	≥ *	≥ %	≥ %	≥ 5/16	≥ ¼	≥ 0
NO CEILING ≥ 20000	, ,	3 • 7	67.7	67.3	67.7	. 3	47.0	67.0	57.0	67.3	67.3	64.0	64.7	1	64.	54.
≥ 18000 ≥ 16000	3	57.	67.	67.	57.	67.si	67.	67.0	67.	67.3	67.5	67.3	67.3	57.3 57.3	67.5	67.
≥ 14000 ≥ 12000	5.7	47.5	67. T	67.3	67.5	39 . 3	67.7	57.3	67.3	67.7 65.3	67.7 68.3	67.7	67.7	67.7	67.7	57.
≥ 10000 ≥ 9000	. 7	11.7	70 . Y	77.3		70.3	713.3	70.3	7 1.3	7:07	77.7	72.7	77.7	70.7	70.7	7: .7
≥ 8000 ≥ 7000	7 7	74.5	71.3	7 3	77.3	72.3	72.3	78.3	77.3	77.7	72.7	72.7	72.7	1		72.1
≥ 6000 ≥ 5000		74.1	74.0	74.	74.	74.	74.5	74.0	74.5	74.3 76.7	74.3	74.3	74.3	1	74.5	74.
≥ 4500 ≥ 4000	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	75.3		74.3 #0.0	. •	78.3 0.3	78.3 89.0	78.3	74.3		73.7	79.7	78.7	1	78.7 60.3	
≥ 3500 ≥ 3000	75.3	ិព្ធ វ		211.7	50.7 92.3	1	87.7 82.3	>7.3	67.7	P1.	81.1	81.7		1	61.1	:i.
≥ 2500 ≥ 2000	1.	-5.11 -5.11	87.7	45.3		1	85.3 67.3	75.3	65.3	45.7	34.7	35.7	85.7 87.7			97.
≥ 1800 ≥ 1500	- 2 • 8	43,	41.3	11.7		08.7	3A.7		1 - 7	3.48 C.SP		99.7	83.5 0.5	89.0	- 1	80.
≥ 1200 ≥ 1000	7.0	73.1	93.3	95.7	93.7	73.7	93.7	23.7	93.7 45.0	75.3	95.8	74.0	94.3 95.3	I .	94.0 95.1	04.
≥ 900 ≥ 800	7.7	94.7		55.j	95.0	, ,	95.0	45.0		95.7	95.7	75.3 93.7		ł.		05.7
≥ 700 ≥ 600	7.7	95.7	96.0 95.7	96.3	96.3		96.3	06.3	95.1	96.7 93.0	96.7	98.7	1	1 !	96.7 95.0	Ŷ5.°
≥ 500 ≥ 400	7.7	96.3	94.7	07.6	9A . 3	78.3	91.7	CB.7	98.7 34.7	99.0 99.0	99.0 99.0	99.0	30.D 30.D	ł.	99.0 95.0	99.
≥ 300 ≥ 200	7.7	76.3	96.7	97.7	93.5	78.3	99.7	29.0	99.0	99.3	99.3	59.3	•		99.7 130.0	
≥ 100 ≥ 0	7.7	96. 3	96.7	97.0	-	~5.3	98.7	79.	79.	79.3	39.3	59. 1		100.0		

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### **CEILING VERSUS VISIBILITY**

PERCENTAGE FREQUENCY OF OCCURRENCE

## (FROM HOURLY OBSERVATIONS)

CEILING							VIS	BILITY (ST	ATUTE MIL	.ES)						
(FEET)	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2%	≥ 2	≥ 1%	≥ 14	≥ 1	≥ %	≥ %	≥ %	≥ 5/16	≥ %	≥ 0
NO CEILING ≥ 20000	57.	56.8 60.0		€4.4 • ○ • 3	1	56.5 63.6	56.5 60.6		58.5 63.0	50.6	50.6 67.0	50.6	56.4	55 at		10.7
≥ 18000 ≥ 16000	57.0	19.00 A	6.4	5 1.4	57.5	63.€ 54.6	\$0.6 \$.76	60.6. 70.5	50.6 67.6	60.7	67.6	60.6 10.7	51.7	5:07	50.7 60.4	-
≥ 14000 ≥ 12000	3 <b>च</b> • ? 55 • ?	60.1 60.7	61.	61.0	1	60.7	50.7 61.3	63.7	61.7	60.66 61.5	61.3	69.8 51.3	61.4	63.4 61.4	51.9 51.4	1.1.4
≥ 10000 ≥ 9000	1.7	63.7		63.7		64.1 44.3	64.3	54.3 54.3	54.1	54.2	54.3	56.2	54.3	54.3	1.4 . S	-
≥ 8000 ≥ 7000	3.4	67.8	67.5	67.6	-		56.4	76.4 67.9	66.4	66.5 68	66.5 60.0	56.5	15.5 5.0	56.5 68.5	66.5	58
≥ 6000 ≥ 5000	0.5 <b>•</b> 1	73.0	69.7 70.5	75.5		68.5 70.5	67.5	10.5	. 65.4 70.0	66.5 70.9	10.9		77.9	58.6	69.6 71.	tf.t.
≥ 4500 ≥ 4000	60 e	71.	71.5	71.5	71.3 73.2	71.8	71.8	73.3	71.0	73.4		71.0	77.4	73.4	71.7	77.5
≥ 3500 ≥ 3000	17.1	7 <b>5.</b> 0	1 7 7	74.4	77.	74.8	74.0	74.8	74.0	74.9	- 1	74.9	77.0 77.3	75.0 77.0	75.3	75.
≥ 2500 ≥ 2000	73.5	78.1	75.7 31.5	74.9 31.7	1	79.3	79.4 37.3	79.4 72.3	77.5 87.5	179.5	- 1	79.5	77.K	79.5 02.4	70,6 63.5	2
≥ 1800 ≥ 1500	i tr	91.5 95.0	30.3	88.6	96.6	3.5 26.7	53.1 46.8	23.2 86.8	93.7 95.9	83.3 86.7	13.3 86.8	13.3	ड <b>रे∙3</b> 2 <b>र</b> •	93.3 97.0	47.	7
≥ 1200 ≥ 1000	37.00	56.7 88.5	87.5	9:04	83.5 91.7	1.2	8. A3	CE.B	96.8 91.4	54.4 51.4		- 1	57.9 61.5	48.9	41.5	9 1 • 1
≥ 900 ≥ 800	0.7	37.7 37.9	91.4	°1.2	93.1	92.1	97.1	77.2 43.7	93.5	92.3 93.4		92.3	-2.3 23.9	92.3 53.9	92.3 93.9	7.
≥ 700 ≥ 600	1.1	00.4 51.5	ម្បី•្អ	73.0 94.0	93.9 95.1	74.3 -5.5	94.6	98.0	94.7 76.1	94.8	94.8	94.4	34.3	96.3	36.3	7 K . 1
≥ 500 ≥ 400	i • ?	91.3	93. T	74.5 64.9		97.€	97.7	27.0	97.1	97.3 98.1	95.1	91.1	4 . 3 7 . 2	98.2		97.4
≥ 300 ≥ 200	1.2	21.3		95.3	96.7 76.9	77.2	98.0 98.0	94.3 96.5	99.4 28.6	98.8 99.0	69.1	78.8 79.1	,0.3		99.4	00.4
≥ 100 ≥ 0		91.3	93.3	75. T	96.8	77.2	94.0	78.5	70.6	99.	93.2	99.2	30.3	-		39.6 100.0

### **CEILING VERSUS VISIBILITY**

PERCENTAGE FREQUENCY OF OCCURRENCE

### (FROM HOURLY OBSERVATIONS)

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CEILING							YIS	BILITY (ST	ATUTE MIL	LES)						
(FEET)	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2%	≥ 2	≥ 1%	≥ 1%	≥ 1	≥ ¾	≥ %	≥ %	≥ 5/16	≥ 4	≥ 0
NO CEILING ≥ 20000	- 1	7.0	67.1	1	57.5 57.4	-7.4		13.2 47.7	67.7	1		53.7 27.7			63.2	
≥ 18000 ≥ 16000	و. د د	· 7 • 1	67.1	5 . 4	67.4	67.4	67.7	67.7	57.7 57.7		67.7	67.7 67.7	67.7		57.7	67.7
≥ 14000 ≥ 12000	47.1	57.1 57.4		· - i	67.4 67.7	-7.4		67.7 69.1		(	67.7 6°.1		67.7	67.7	57.7 5ª.1	57.7
≥ 10000 ≥ 9000	71.	71.3 71.3	71.3	71.5	71.6	71.6	71.5 71.9	71.6	71.7 71.2	1	71.9 71.9	71.9	71.0	71.6°	71.9	1.5
≥ 8000 ≥ 7000	* C		77.6	74.5	7".9	72.7	73.2 74.3	73.2	73.7		75.2	73.7 74.8	73.2 74.8	73	73.2	74.5
≥ 6000 ≥ 5000	*# - F	74.3	74.8 76.5		75.2 76.5	3.2 6.8	75.5	75.5 77.1	77.1			74.5 77.1	75.5	75.3	75.5	7.
≥ 4500 ≥ 4000			77.1	77.4	77.4 77.7	77.4	77.7	77.7	77.7		77.7	77.7 78.1	77.7	77.1	77.7	77.7
≥ 3500 ≥ 3000	7.4		7 4 • 1 51 • 3		75.4 51.5			76.7 21.2	74.7		73.7 51.5	70.7		74.7	71.7	7 .7
≥ 2500 ≥ 2000	7.9 3.5	53.5	i, *•6 84•2		03.0		84.2 68.4		94.7 24.6	54.2 24.8	24.2 24.3	14.2 24.3	94.7 24.8	44.7 44.3	-4.; 24.8	
≥ 1800 ≥ 1500	7.7 7ۥ1	84.5 87.1	34.5	24.5	84.5			1	67.7	<5.2 87.7			25.7 87.7	45.2 47.7	55.2	
≥ 1200 ≥ 1000	b • <sup>6</sup> 7 • 7	።8•1 ዓመ•ባ	30.1 97.3		9F.4	78.7	1	• 1	49.0		90.00 91.6		50 ° 0.7 14 1 • 6	86. 91.6	94."	
≥ 900 ≥ 800	7.7	00.7	90.3 91.3			11.3 22.3	72.6	62.6		92.6		91.6	51.6	92.6		5) • 6 5) • 6
≥ 700 ≥ 600	# . <b>Y</b>	71.0 71.7	92.3	62.0	92.6	3.8		73.2 73.5		93.9	91.9	95.2°		45.0	93.7	
≥ 500 ≥ 400		21.9	92.9	98.6		35.2 35.5	96.5		76.6		76.1		97.1	27.1	95.1	97.1
≥ 300 ≥ 200	3 5 . W	92.1	94.7	74.8	74.5	96.5	97.7	08.1	94.1	98.4	90.6	98.1 98.4	95.1	98.7	98.7	다시.) 작립.)
≥ 100 ≥ 0	19 17 0 M		94.2	94.6 74.6	96.5	°6.8	99.1	78.4	92.4 93.4	99.7	- 1	98.7	t 0	99.0	49.1	en e

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### **CEILING VERSUS VISIBILITY**

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING							VIS	BILITY (ST	ATUTE MII	LES)						
(FEET)	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 21/5	≥ 2	≥ 11/3	≥ 1%	≥ 1	≥ ¾	≥ %	≥ ⅓	≥ 5/16	≥ .	≥ 0
NO CEILING	. 7	1	61.0		61.0		1.2.	2.3		~ Z • 3				20.5		
≥ 20000	4		65.2		5	15.3	65.8			2.00		5.00		75.		
≥ 18000 ≥ 16000	4 .	* 5 • 3 • 5 • 3	65.7	65.2	65.5	(5.5 (5.5	55.8	*5.8 (*5.8)	35.5 6≤.5	65.0	ا د د د د معنی	5 6 3	10.0	65. 65.4	¥ c • J	
≥ 14000 ≥ 12000	4	65.7 55.2	65°•2	55.0 65.3	56.5	15.5	68.00 65.6	55.0 55.0	£1.5 5.00 €	5.00	55.8 55.8	55.5 35.8	, , , e	65.	68.22 65.43	6 ± • 1
≥ 10000	26.1	47.4	67.4	07.4		77.7	2 2 1	1 3.1	11.1	5 .1	6 1	£ 5 . 1	. 1	1 1 1	· · · · · · · · · · · · · · · · · · ·	
≥ 9000		51.7	07.7	57.7	t 4 . 1	47.1	62.4	1 4	6 - 4	6 , 4	ن . و	64.4			, i , u	7
≥ 8000 ≥ 7000	1.0	77.0	7100	71.5	70.5	71.3	71.6	71.5	72.5	1	71.6	72.0	71.6	71.5	77.5	77
	-	72.5		i i	73.5	<del>-, : </del>	73.4	73	***		77.2		77.	-	• • • •	7. 3
≥ 6000 ≥ 5000	3 . 2	10	73.3	7:.2	70.5		75.3	15.4	7	1			7.	74	7 E	7 1
≥ 4500		15.00	75.2	7:02	75.5	75.5	75	***	77,00	75.8	70.3	77.3	7.	7'. • '	38.2	75.1
≥ 4000		75.5	7 % • 3	7: • 3	70.1	76.1	76.5	25.5	36.00	7 - • *	76.5		71.65	7	76.	· <u>- · - </u>
≥ 3500 ≥ 3000	4	76.7	70.9	76.5	77.1	77.1	77.4	77.4	77.4	77.4	77.4	77.4	77.6	77.6	77.0	77.7
		78.0	7 1	7 1	7 - 4	- J. L	7: 7		7: -	7 . 7	7 7	7 7	7.7	<del></del>	75.7	
≥ 2500 ≥ 2000	7		2 7	7	a 1 . :	1.0	1.7	-1.3	51.	1.5	. 1 . 3	- 1 - T	1.3	1.	1.7	3.1
≥ 1800		(1. J	41.0	• • • • • • • • • • • • • • • • • • • •	57. (	3	5	7 • 6		- •	- tı			2.5	7.2.6	•
≥ 1500	1.	46 0 5	34.	, w . 3	55.2	5.2	<b>c `•</b> ′	', , *	• •	3 . • 5		450		3.		
≥ 1200 ≥ 1000	• 3	7 . 12	37.7	25.5	5 5 . S	8.8 8.3	67.1 89.4	7.1	47.1	i i	1.7•1.   : e . u	1.1	1.0	7.:	7.1	
		7.7		73.1		3.4	3 - 7	₹15 <b>. 7</b>	2 4 2	61.7		·			<u> </u>	<u> </u>
≥ 900 ≥ 800	3	ы <b>э. 7</b> ,	7.00		91.	1.6	01	1.3	71.7	91.3	1 2 . 3	-1.2	71.	1.1	31.	1
≥ 700	2.4.1	VC . 7	1.	61.0	7.0	2.3	35.0	. 0	400	53.0	43.7	3.2	7.	72.2	- 3.00	T
≥ 600	٠ و د	1.	21.0	7: • 9	2 - 2	3 . I	5.4.4	24 . 5	44 e "	24.5	04.	214.	3 4 6 F	74.		•
≥ 500 ≥ 400		.2.3	37.0	, ,	44.0	94.T	\$ 5 a 1.	7.4	05.4 63.4		96.	16.00 10.00	•,	- 6 • t - 1 • 1	5.	· .
		2 . 3	y 2 G				26.1	7.4		7	03.1					
≥ 300 ≥ 200	4	7	42.0	1 1	5 ° 6 8.	5 • · ·	74.1	7.4	57.4		35.4			1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	43.4	7
≥ 100	4.	2.7	<u> </u>		35.5	5,	66.5	7.7	47 <del>.</del> 7		41.7		10 B . 9	- C	99.0	
≥ ′0	L o	-2.3	22.5	95.0	30.5	95.0	71/4 8	17.7	47.7	: 1	14.7		7			1

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TOTAL NUMBER OF OBSERVATIONS	

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### **CEILING VERSUS VISIBILITY**

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING							VIS	IBILITY (ST	ATUTE MIL	ES)						
(FEET)	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 21/2	≥ 2	≥ 1%	≥ 1%	≥ 1	≥ ¾	≥ %	≥ %	≥ 5/16	≥ ¼	≥ 0
NO CEILING	1				50.4 €2.5		28.4	. 5 . 4 . 2 . 3	62.3	52.3	५ ° व	98.4 50.3	53.4	12.3		[ a . t.
≥ 18000 ≥ 16000	•		67.3	67.3 66.3	62.3	77.3 27.3	57.5	4 3 - 2	6. 5	62.3	62.5	52.3 62.3		02.3	52.7	
≥ 14000 ≥ 12000			67.3		62.6	12.2	62.3	62.3	47.7	12.5	- V - V - V	67.7	t 7. *	42.3	62.5	5
≥ 10000 ≥ 9000		, n	6 . 5		55.5 55.8	55.5 €5.8	65.5	45.5	65.5 65.5	55.0	63.5	65.5	65.5 65.8	6.33		6
≥ 8000 ≥ 7000	,	24.4 59.2	64.7	£ 5.7	89.7	18.7	69.7	70.7	62.7	67.7	69.7	68.7 69.7	66.7	54.7 59.7	58.7	55.7
≥ 6000 ≥ 5000	#3.4 ***	71.	60.7	69.7	57.7	59.7	21.3	A9.7	69.7 71.1	69.7	71.3	60.7	50.7	59.7 71.3	59.7	69.7 71.3
≥ 4500 ≥ 4000	1	71.7	71.6 77.6	71.6 72.6	71.4	71.6	71.5 72.6	71.5	71.6	71.6 72.6	71.8	71. 72.0	71.4	71.6 72.6	71.5	71.
≥ 3500 ≥ 3000		12.6 73.0		72.5	72.4	72.5 74.2	72.9	74.2	72.9	72.9	72.9	72.7	72.2	72.5	77.7	7, , ,
≥ 2500 ≥ 2000	4.7	"6) 79.4	77.1	77.1	72.7	77.1	77.1	79.7	74.7	77 • 1 7° • 7	79.7	79.7	77.1	77.1 79.7	77.1	77.1
≥ 1800 ≥ 1500	71 • 7	87 92	57.0	4.2	84.7	14.2	50.7 54.2	44.3	40.7	50.00 84.00	3.4.7	14.7	87.7 54.7	24 • 2	.4.7	5 . 7
≥ 1200 ≥ 1000	1.3	7.4	A . 7		문학 • 건 9 11 • 4	99.6	95.2	<del></del>	35.7 33.4	35 a 2 39 a 4	57.4	75.2 94.4	· · · · ·	17.4	35.7	9 v . la
≥ 900 ≥ 800	1.0	19.4	9 . *	91.5	91.6	19.7	91.0	17.3	<u> 92.3</u>	92.3	97.7 97.3	27.3	77.3	72.	42.3	3 . 7
≥ 700 ≥ 600	1.7	19.7	91.0	41.3	91.9	97.6 32.5	92.5 52.6	·:.9	92.9	97.5	92.9	92.9	67.4	92.9	92.9	9/07
≥ 500 ≥ 400	) • 5	1003		37.6 37.6	91.7	23.4	45.5	7600		94.5 96.8	95.5	96.4	60.0	95.8	96.9	96.5
≥ 300 ≥ 200	1.0		92.0	61 43 4 4 55 7	36.3 35.66	7.1	96.8 97.4	57.1 7.1	97.1 38.1	97.4	97.4 98.6	97.4 96.4	07.4 73.4	97.4 78.4	97.4 99.4	97.4
≥ 100 ≥ 0	1.0	70.7	97.9 97.9	04.5 54.5	96.1	07.1	97.4	18.1 40.1	71.1	\$3.4 \$2.4	95.7	28.7	45.7	38.7	48.7 58.7	98.7 00.0

TOTAL NUMBER OF OBSERVATIONS	•
IDIAL NUMBER OF OBSERVATIONS	

### **CEILING VERSUS VISIBILITY**

### PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING						-	VIS	IBILITY (ST	ATUTE MIL	.ES)						
(FEET)	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2%	≥ 2	≥ 1%	≥ 1%	≥ 1	2 %	≥ %	≥ %	≥ 5/16	≥ %	≥ 0
NO CEILING ≥ 20000	2 4	52.5		ე.წ რმ₌3	53.2 60.7	3.2	\$3.2 5.0a	53.2 50.7	53.2 63.7	53.2 60.7	57.3 60.7	57.2	1000 1000	93.2 00.7	53.2 65.7	*3.7 %1.**
≥ 18000 ≥ 16000	\$ • ? • • ?	3	ь"? 57	50.7 €0.7	61.	61.0 61.0	61.0 61.0	1.0	51.5	61.0	61.0	11.5	51.8 61.0	61.3	61.0	
≥ 14000 ≥ 12000	5.°	21.3	61.6	61.5	51.5	A1.0	61.5	1.6	61.6	51.5	61.9	61.0	61.5 61.0	51.6	61.5	51.6
≥ 10000 ≥ 9000	7	63.2 3.2	6 3 6	63.6	57.0	63.9	63.7	53.7 63.8	63.5	53.7 63.4	63.00 53.00	53.9 83.9	63.5	63.0	63.9	53.7 53.7
≥ 8000 ≥ 7000	~ ° • 7	14.8	65.2 67.1	67.1	67.4	1	65.5	55.5 57.4	65.00 67.4	65.3 67.4	65.5	65.5	57.4	55.5 57.4	65.5 87.4	5 2 6
≥ 6000 ≥ 5000	3.7	67.1	67.4	67.4 69.7	67.7	70.0		19.7 19.0	27.7 73.5	67.7 70.5	67.7 70.0	67.7 70.0	67.7	67.7 70.0	67.7 75.0	70.0
≥ 4500 ≥ 4000	33 € 2 0 3 € 4	75.3	71.0	71.0	71.3	71.3	71.5	71.3	71.5	71.3	71.3	71.3	71.9	71.5	71. T	71.0
≥ 3500 ≥ 3000	4.5	71.6	72.5	72.3	72.6 73.4		72.5	73.6	72.6	72.5	73.6	72.6	72.6 73.6	72.6 73.6		
≥ 2500 ≥ 2000	6.	73.9	74.5	74.5 71.8	75.2	75.2 76.5	75.2 70.5	75 . 7 76 . 5	75.7	70.2 76.5	75.2	75.2		76.5	75.2 76.5	75.5
≥ 1800 ≥ 1500	7	76.1	76.5	76 • € 9~ • €	77.4 31.	***	77.4	77.4 21.0	41.7	77.4 21.5	77.4 61.0	77.4 -1.4	77.4 61.0	77.4	77.4	77.4
≥ 1200 ≥ 1000	1.7	45.3	31.3 84.5	1.3 55.2	82.9 86.5	36.4	82.9 \$6.3	22.9 56.8	92.9 86.8	8 . C	87.4	86.8		42.9 66.5	87.9	12. 45.8
≥ 900 ≥ 800	7 1 • 9 7 1 • 9	62.9 89.7	84.8	27.4	88.1 90.3	.0 • ?	88.1	24.1	05.1	10 mm	88.1 90.3	78.1 90.3	97.3		66.1 90.3	3 c . 1
≥ 700 ≥ 600		-4.5 -5.5	35.5 87.4	³: • 7	91.0	2.9	91.3 93.2		01.3 93.6	91.3		71.5 73.6	91.3	73.5	43.7 93.6	91.5 97.c
≥ 500 ≥ 400	77.6	13.8 45.0	87.7 69.1	89.7	92.9	3.2 5.2	73.6 95.5	93.6 95.9	95.9	3000		96.5	94.9 36.5	93.9 96.5	93.9	96.0
≥ 300 ≥ 200	12.0	35.8 36.1	89.1 88.4	93	94.5	់ <b>5</b> . ម	95.3 95.1	96 . 8 ○7 . 1	97.4	93.1 78.4	38 • 1 98 • 7	96.1	98.1 98.7	99.7	98.1 98.7	98.1
≥ 100 ≥ 0	* L • 1	26.1	38.4 85.4	9 -6 3	34.4	75.8 75.8	96.1 96.1	97.1	97.4	36.4	98.7	93.7	58.7	98.7 99.ũ	99.4	49.7 100.0

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OTAL	MUMBER .	OF ORSE	PVATIONS	*	1	٠.

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### **CEILING VERSUS VISIBILITY**

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING							VIS	BILITY (ST	ATUTE MIL	E5)						
(FEET)	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2%	≥ 2	≥ 114	≥ 114	≥ ;	≥ %	≥ %	≥ %	≥ 5/16	≥ ¼	≥ 0
NO CEILING ≥ 20000	. , ,	4	54.5 67	54.5 40.7	54.5 67.7	10.7	56.5 60.7	4.5	10.7	54.5	54.5	£4.5	€4.5 60.7	1 111	54.5 50.7	54.7 63.7
≥ 18000 ≥ 16000	. 7	60.3	67.7	5 '47 :1.0	5°.7	11.	57.7	60.7	5 1.7	60.7	51.7	63.7 61.0	67.7	60.7 51.0	50.7 51.0	51.7
≥ 14000 ≥ 12000	. ·	01.5 62.5	61.6 40.8	61.6	51.5 52.5	62.6	62.6	+1.6 +7.6	51.4	91.6	67.6	61.6	61.4	61.6 62.6	61.4	51.5
≥ 10000 ≥ 9000	* Q	45.5 65.5	65. °	65.8	65.8 65.8	65 • 8 ∳5 • 3	65.8	55. 8 55. 8	45.0	65.8	65 . A	≎5•å	6°.9		65.8	5" • 5 £ 5 • 11
≥ 8000 ≥ 7000	5	68.7	67.1	69.	67.1	54 . 1 59 . 0	69.0	49.1 59.0	5001	o ( . 1 62 . €	69.5	60.1 69.0	56.1 66.0	69.	68.1	5:01 500E
≥ 6000 ≥ 5000	57.7	71.6	7 . 0	70.0 71.9	70.3	70.0 71.9	70.0	75.0 71.9	75.0	70.0 71.9	71.9	70.2	73.5	70.L 71.9	72.3	70.5 71.5
≥ 4500 ≥ 4000	7 . • 2	12.3 72.9		72.6 73.6	77.6	72.±	77.6	77.5	72.6	72.5	77.00	72.6	72.5	77.5	72.6	72.5
≥ 3500 ≥ 3000	71.00 73.00	°6. °	74.2	74.5	74.5	74.5	74.5	77.1	74.5 77.1	74.5	74.6	74.5	74.5	74.5	74.5	77.1
≥ 2500 ≥ 2000	76.5 17.1	47.7	\$1.5	90.0 91.9	81.7	1.0	81.9	77.63	00.7 42.3	RO.3 82.3		67.3	20.3	87.3	52.3	37.3
≥ 1800 ≥ 1500	7	:1.9	35.5	43.2 16.5	83.2 56.5	36.5	23.2	3.6	66.00	96.	53.5	75.6 76.8	84.6	45.6 46.8	96.8	8 6 6
≥ 1200 ≥ 1000	5		87.1	9 . 3	95.4	73.7	911.7	3.7 71.0	34.7	91.0	91.7	91.7	31.0	61.5	21.5	
≥ 900 ≥ 800	1.6	27.7	77.7	90.3		92.3	92.9	93.2	93.3	43.2	91.2	91.5	57.2	93.2	91.7	
≥ 700 ≥ 600	100		91.6			94.2 95.5	94.8 96.1	26.5	95.2 96.5	96.5	95.2	95.2 96.5	94.5		95.2	95.7
≥ 500 ≥ 400	1.5	90.3	91.6	43.6	76 - 1	7.4	99.4	78.1 94.7	38.7	93.1	98.1 98.7	98.7	35.7		98.1	
≥ 300 ≥ 200	1.4	÷3	91.6	93.6	96.8	27.4 27.7	98.7	79.0		99.7 100.0		09.7 100.0			99.7 100.0	100.0
≥ 100 ≥ 0	1.	30.7 48.7	1 - 1	93.9	96.5	27.7	98.7	9.4		170.6 170.6			_	100.0	100.T	· .

TOTAL NUMBER OF OBSERVATIONS\_

### **CEILING VERSUS VISIBILITY**

PERCENTAGE FREQUENCY OF OCCURRENCE

(FROM HOURLY OBSERVATIONS)

CEILING					-		VIS	IBILITY (ST	ATUTE MIL	LES)			-			
(FEET)	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2%	≥ 2	≥ 114	≥ 1%	≥ 1	≥ ¾	≥ %	≥ %	≥ 5/16	≥ 4	≥ 0
NO CEILING ≥ 20000	58.8 55.2	17.1	57.1	57.4	57.4	16.5	57.4	17.4 44.8	57.4	57.4	57.4	57.4	57.4 65.F	57.4	57.4	57.4
≥ 18000 ≥ 16000	15.2	(6.5	60.5	1.6.8	66.8	46.5	56.8	56.5	66.8	65.8	66.4	6 E . d	46.00	66 . i	66.5	53.1
≥ 14000	5 5 - 3	56.5	66.3	57.1	67.1	66.3	57.1	7.7.1	67.1	67.1	67.1	65.8	67.2	67.1	66.3	67.1
≥ 12000	6.1	27.4	67.4	67.7	67.7	67.7	67.7	61.7	67.	67.7	57.7	57.7	67.7	67.7		6.7.7
≥ 10000 ≥ 9000	્ડ <b>ા ∌</b> લ કહે <b>ુલ</b>	71.0	71.0	71.3	71.3	71.3	71.3	71.3	73.3 71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.7
≥ 8000 ≥ 7000	71.9	73.9	75.7	74.2	74.2	74.2	74.2	74.2	74.7 75.5	74.2	74.2	74.2	74.2	74.2	74.2	74.2
≥ 6000	74.2	76.1	75.1	74.5	76.5	76.5	75.5	*5.5	76.5	76.5	76.5	76.5	76.5	76.5	15.4	76.5
≥ 5000	71.5	77.4	77.4	77.7	77.7	78.1	79.7	75.7	70.7	79.7	79.1	77.1	7'.7	76.1	75.1	75.1
≥ 4500 ≥ 4000	2000	79.4	73.4		8" - 3	40.7	83.7	å1 • ?	50.7	a	5°.7	(7.7		7. 7	1 "	8
≥ 3500 ≥ 3000	78.1	*2.3	37.3	91.6	37.3	2.6	87.5	12.6 23.9	83.5	37.6 83.0	32.4 33.9	43.6	47.6 43.9	63.9	82.5	E ₹ .6.
≥ 2500	• -	83.2	61.2	43.9	# H . 5	3 <b>6 .</b> 8	64. F.	4.00	C4 . 4	34.0	24.3	34.3	14.5	24.4	84.7	
≥ 2000	3.5	36.8	85.3	87.4	38.1	2 B . 4	38.4	17.4	57.4	F 7 . 4	37.4	37.4	- 4	36.4	56.4	66.4
≥ 1800 ≥ 1500	34.5	35.4	3 B . 4	85	7.10	10.7	3 7 7	97.7	93.7	93.7	50.4	20.7	7		90.7	
≥ 1200 ≥ 1000	4 . 13	39.4 59.7	80.4	91.3	\$1.3	1.4	91.0	71.9	91.0	91.9 93.6	91.9	91.9 53.6	97.5	?1	91.4	71.6
≥ 900	No. 3	59.7	90.0	91.3	72.3	3.0	93.7		43.0		Q 7. V					5
≥ 800		10.7	91.3	92.0	95.2	5.1	96.1	46.1	76.1	20.1	95.1	6.1	54.1	75.1	26.1	46.1
≥ 700 > 600	•	10.7	91.6	02.9	55. A	76.3	97.1	37.1	97.1	97.1	97.1	07.1		97.1	97.1	97.1
	25.0	20.7	91.6	77.9	96.5	17.7	73.1	27.7	53.3	28.1	97.7	79.1	27.7	97.7	97.7	24.1
≥ 500 ≥ 400		63.7	91.0	93.2	76.5	20.1	98.7	19.3		94.0	na n	59.0	92.8	96.0		47.
≥ 300 ≥ 200	5.5	91.47	91.7	43.2	96.5	76.1	99.	79.4	99.4	99.7	93.7	97.7	29.7	99.7	99.7	00.7
	5.5	95.7 30.7	91.9	93.2	96.5	78.4	99.4	79.4	99.7		99.7	29.7		99.7	100.7	
≥ 100 ≥ 0		1	91.7	- 1	76.4		99.4	29.7		1.0.5			г - :	r		

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### **CEILING VERSUS VISIBILITY**

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING							VIS	BILITY (ST	ATUTE MIL	ES)						]
(FEET)	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 21/2	≥ 2	≥ 11/2	≥ 1%	≥ 1	≥ ¾	≥ %	≥ %	≥ 5/16	≥ ¼	≥ 0
NO CEILING ≥ 20000	11.3 36.3	52.5 57.3	6 7 - 1	53.8 63.3	5 1 68 - 6	· 4 · 1	64.1 65.6	64.1	64.1	£401 £506	54.1	54.1 58.5	04.1 03.6	56.6	65.6	64.1 67.5
≥ 18000 ≥ 16000	15 a 7	67.7	67.6	65.43 65.6	68.6 68.9	50.6	68.5	56.5 53.9	68.4 05.9	63.6	60.3	\$0.0 5.0	40.5 64.9	60 - 5 65 - 7	60.9	
≥ 14000 ≥ 12000	* * * * * * * * * * * * * * * * * * *	68.3 70.7	60.6 70.5	59.3	6°.6	71.5	69.6 71.5	69.6	11.5	69.6 71.5	60.6 71.5	89.4 71.5	40.6	59.6	67.6 71.5	1
≥ 10000 ≥ 9000	'1.º	73 • 1 73 • 1	73.5 73.5	74 - 1	74.4	74.4	74.4	74.4	74 . 4 74 . 4	74.4	74.4	74.4	74.4 74.4	74.4	74.4	74.4
≥ 8000 ≥ 7000	4 . 4		75.1	76.7	77.7	77.U	77.6	77.0	77.7	77.C	77.7	77.7	77.0	77.1	77,7	77. 77.7
≥ 6000 ≥ 5000	75.1	77.7	70.9	76.6 86	77.7	77. 33.9	79.0 80.9	73.5	80.3	77.0 80.0	36.9	80.9	<del></del>	79.5 50.9	87.9	50.7
≥ 4500 ≥ 4000	2.6	40.9 12.5	32.9	71.9	83.8	54.5	52.3 34.1	14.1	34.1	82.5	84.1	27.5 64.1	2.5	32.5	82.5 84.1	20.5 24.5
≥ 3500 ≥ 3000	1.6	47.5 43.0	3 . B	64.5	83.3 84.0	74.1	64.1 5%.1	74 • 1 75 • 1	80.1	45.1	54 - 1 55 - 1	64.1	83.1	84.1 85.1	25.1	1
≥ 2500 ≥ 2000	2.2	34.5 A5.4	85.1 85.1	85.8 85.7	55.1 87.1	37.4	87.4	47.4	85.4	57.4	67.4	85.4 47.4	57.4	35.4 A7.4	87.4	95.4
≥ 1800 ≥ 1500	- 3 • 3 - 5 • 1	48.0	90.3	58∙9 99•0	90.6	40.9	83.7 90.7		5A.7		90.4	90.9	90.7	90.9	39.7	9.00
≥ 1200 ≥ 1000	5.4	48.4 49.6		90.5		\$1.9 \$3.2	93.2	03.2	91.7	73.2	91.0	91.3	91.9	\$3.2	91.9	61.0
≥ 900 ≥ 800	5.4	°0.3	92.2	93.2	94.2	33.5		94.5	94.5	93.5	93.5	94.5	97.5	94.5	93.5	94.1
≥ 700 ≥ 400	10.4	90.9	\$2.9	93.5		94.A		75.2	95.4	75.2	95.4	95.2	55.4	35.2	95.2	4
≥ 500 ≥ 400	16.4	9,, 9		94.7	95.5	-6.1	97.1	57.1 58.1	97.1 98.4	98.4	77.4	99.5	97.4 50.4	77.4	99.4	97.4
≥ 300 ≥ 200	16.4	9 ( . 9 4 ( . 9	93.5	94.5	95.5 95.8	56.4	97.4	29.4	99.4	98.7	99.0	99.0			190.4	
≥ 100 ≥ 0	- 6 - 4 C - 4	_20.9 γ2.9	93.5	94.5	95.8	96.4	97.4	98.4 98.4	98.7 VE.7	98.7	99.4	39.4	100.0		100.0	

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TOTAL NUMBER OF OBSERVATIONS

## **CEILING VERSUS VISIBILITY**

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

73-02

CEILING							VIS	IBILITY (ST	ATUTE MIL	ES)						
(FEET)	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 21/4	≥ 2	≥ 11/2	≥ 14	≥ 1	≥ %	≥ %	≥ %	≥ 5/16	≥ %	≥ 0
NO CEILING ≥ 20000		67.3	67.3	67.3	67.3	62.3 57.5	67.3	62.A	52.8	67.3	62.5	52.6 57.3	63.6 67.3	62.6	67.7	67.2
≥ 18000 ≥ 16000	34.	67.5	67.3	67.3	67.3	67.3	67.3	67.3	67.5	67.3	67.3 67.5	67.3	6.7.3 67.03	67.3	67.3	57.7
≥ 14000 ≥ 12000	37.6	67.5 70.9	67.6	67.6 70.9	67.6	70.3	67.6	67.6	67.5	67.6 7::.9	7:00	67.6 70.9	57.6 77.69	67.6 77.5	67.5	£7.6
≥ 10000 ≥ 9000	2.5	74 . 1	74.1	74 - 1	74.3	74.1	74.1	74.1	74.1	74.1	74.1	74.1 74.1	74 . 1 74 . 1	74 - 1 74 - 1	74.1	74.3
≥ 8000 ≥ 7000	1 1	75.7 76.7	75.7 76.7	75.7 76.7	76.7	76.7	75.7	75.7	75.7 76.7	75.7 76.7	75.7	76.7		75.7 76.7		73.7
≥ 4000 ≥ 5000	75.4 77.7	77.	77.0 77.6	77.0	77.5		77.0 79.6	77.0	77.0	77.0	77.5	77.4	77.0	77.0 79.0		77.6
≥ 4500 ≥ 4000	70.3	79.5		61.9	81.9	31.9	61.9	1'.3 -1.9	43.3 31.9	33 21.5	61.7	37.3	37.3 23.0	*0.3	81.4	\$0.5 41.0
≥ 3500 ≥ 3000	7 C . Q	34.5	51.7 54.5	71. # 54.8	84.8		34.4	14.5	\$4.5	21.0 24.8	£ 6 . 2	31.9	74.8	84.3	84.4	34.8
≥ 2500 ≥ 2000	3 . t	· 5 • 4	85.A	65.3 57.4	85 - 8 87 - a	+7 . q	e7.4	57.4	65.A 51.A	45.8 67.4	55.3	35.8	6 5 <b>.</b> A.	45.8 97.4	87.4	57.4
≥ 1800 ≥ 1500	7.1	57.7	89.0 89.6	44.4	88.0		89.0 90.0	73.0 46.0		70.0	90.0	88.0 90.0	ាក្រ	78.0 93.0	40.0	93.
≥ 1200 ≥ 1000	7.1	30°2	91.7	21.3	91.3	1.5	97.0	99.0	90.5	77.5	93.5	91.5	70.0	*0.0 \$1.6		00.5
≥ 900 ≥ 800	F . 7	71.5		*: •6	91.9		97.2		93.2	92.2	97.2	33.2	17.2	97.0	93.2	32.2
≥ 700 ≥ 600	8 .	92.2	92.6	47.2	93.5	73.9	93.7	95.5	32.2	94.2	94.2	24.2	44.2	95.5	94.2	24
≥ 500 ≥ 400	5, %	73.2			95.5	46.4	96.4	97.1 77.4	97.1	97.4		77.4	67.1 97.4	97.1	47.1 47.4	97.4
≥ 300 ≥ 200	99.3	93.5	94,5	75.2	96.4	7.1	97.7	78.4	37.4	98.4 58.4		96.7	99.5	98.7		
≥ 100 ≥ 0	3 9	93.5			90.4 96.4	1	96.1	98.7	98.7 98.7	78.7	99.4	94.4 ?9.4	99.4	99.4		49.4 103.6

TOTAL NUMBER OF OBSERVATIONS

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### **CEILING VERSUS VISIBILITY**

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING							VIS	HOILITY (ST	ATUTE MIL	ES)						
(FEET)	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2%	≥ 2	≥ 1%	≥ 1%	≥i	≥ %	≥ %	≥ %	≥ 5/16	≥ 4	≥ 0
NO CEILING ≥ 20000	. / . 7	9.0	5 • 1 64 • 4	54.3 65.4	59.4	59.4 64.6	57.5 £5.0	73.5 65.5	59.5	54.5	50.8 63.0	50.5	50.5	[ 9.5 65.	59.5	57.5 65.0
≥ 18000 ≥ 16000	5 <b>.</b>	04.6 24.6	54.7	64.8	54.9	54.7	65.0 65.1	45.C	65.1	55.0 55.1	65.0	65.2 65.1	55.0	55.1	55.1	5° • 1 65 • 1
≥ 14000 ≥ 12000		54.7 55.7	65.1 66.0	65.2 66.2	60.5	-9.3 66.3	65.4	65.4 66.4	65.4	65.4	65.4	65.4	60.4 66.4	65 . 4 56 . 4	55.4 66.4	66.4
≥ 10000 ≥ 9000	27.1	68.0	69.11 69.1	69.2	69.3	40.3	69.4	59.4 69.5	69.4	69.5	60.4	69.4 59.5	69.4	69.4	69.4	68.5
≥ 8000 ≥ 7000		71.2	71.4 72.5	71.5	71.7	71.7	71.8	71.6 75.0	71.5 73.3	71.6	71.8	71.8	71.5 73.0	71.5 73.0	73.5	71.5
≥ 6000 ≥ 5000	7: • 5 <u>12•</u> 5	73.1	73.2	73.4	73.5	75.5	75.6	73.6	73.6	73.6	73.6	75.6	77.5	73.6 75.6	75.5	75.7
≥ 4500 ≥ 4000	" ! . T	75.7	75.5	75.2	76.3	76.4	76.4	76.4 77.4	75.4	76.4	77.4	76.4	75.4	76.4	77.0	77.4
≥ 3500 ≥ 3000	76.3	77.3		77.7	77.9	78.0 79.6	75.1	78-1 79-9	75.1	70.1	75 . 1 79 . 9	79.1	75.1	79.5	75.1	
≥ 2500 ≥ 2000	17 - 3 74 - 3	30.6 22.3	20.9 52.7	81.1	31.4 83.1	61.4 53.2	81.5 83.3	1.5	51.5 E3.3	\$1.5	61.A	31.6	61.6	1.1.6 £3.3	63.3	93.4
≥ 1800 ≥ 1500	1.5	33.2	86.5 86.5	56.4	84 - 1 86 - 6	4 • 2 57 • U	64.3	34.3	67.1	84.3 87.1	64.3 67.1	87.1	37.1	84.3	34.3	
≥ 1200 ≥ 1000	12.1	86.5	87.	97.5 59.8		88.2 93.6	90.6		93.7	44.3 79.7	20.7	58.3 40.7	90.7	20.7	90.7	
≥ 900 ≥ \$00	#3.5 *3.5	59.6			97.7	71.0	91.1		92.0	91.1	71.1	91.1 92.9	97.9	02.0	- · · · · ·	97.0
≥ 700 ≥ 600	3.7	90.7	91.	92.5	93.9	93.4	93.8	95.1	95.1	95.2	94.1	94.1) 25.2	\$1.2	35.2	95.2	95.2
≥ 500 ≥ 400	7.9	90.7		73.4	35.6	75.4	95.9	97.5	96.1	96.4	97.8	96.5	\$7.9			
≥ 300 ≥ 200	3.0	93.8 93.9		73.6		26.5 26.8	97.5		78.4	98.5	90.0	98.6	97.1	99.1	99.1	99.2
≥ 100 ≥ 0	્કું. ક	90.9	92.5	73.6	96 . 1 96 . 1	6.9	97.7	78.4	98.6 98.6	98.9	99.2	66.5	79.8	79.4	99.4 99.5	10005

TOTAL NUMBER O	OBSERVATIONS	. 2	47

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NO

# **CEILING VERSUS VISIBILITY**

PERCENTAGE EDECLIENCY OF OCCUPRENT

31 L

# PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING					-		VIS	IBILITY (ST	ATUTE MIL	.ES)						-
(FEET)	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 21/2	≥ 2	≥ 11/5	≥ 1%	≥ 1	≥ ¾	≥ %	≥ %	≥ 5/16	≥ ¼	≥ 0
NO CEILING ≥ 20000	11.7	44.7	5:.6 65.2	53.9	50.1	55.3	57.1	65.3	39.2 65.9	54.2 65.0	50.2 65.9	59.2	57.2 65.9	+9.2 65.9	59.2 65.9	
≥ 18000 ≥ 16000	1.0	54.9	55.3	65.7	65.9	65.9 55.6	66.0 66.0	56.0 56.0	65.0°	55.0 55.1	56.0 65.1	66.5	66.0	56 56 . l	66.0	56.1
≥ 14000 ≥ 12000	· 2 • 3	56.7	65.6	55.1	65.8	57.9	67.9	67.8	55.4	56.4	50.4	56.4	58.5 59.5	66.5	1	66.2
≥ 10000 ≥ 9000	67.1	70.5	71.1	71.5	72.1	71.8	71.9	71.8	71.8	71.9	71.9	71.9	71.9	71.9	1	*
≥ 8000 ≥ 7000	85.4 73.3	73.1	73.7	74.2	74.4	74.5	74.5	74.5	74.5	74.5	74.5	74.5 75.3	-	74.0	74.4	
≥ 6000 ≥ 5000	77.5	74.5	75.2	75.7	75.6	76.0	76.7	76.5	76.1		76.1	76.1 79.1	75.1 73.1	75.1 75.1	76.1	75.1
≥ 4500 ≥ 4000	73.7	77.4	77.1	79.6	78.9	78.9	79.0 80.6	79.0 73.6	79.5	79.0 97	79.0	79.8 89.7	70.5 50.7	79.0		,
≥ 3500 ≥ 3000	75.3 76.8	00.0 31.8	87.0	51.3 23.2	81.7	91.4 93.6	91.8	33.7	81.5 83.7	51.9 53.8	81.9 83.8	81.9 83.8	51.9 83.8	43.8	31.3	7 . c
≥ 2500 ≥ 2000	70.5	45.3	34.3	24.9 54.9	85.3	67.5	87.6	65.5	5.5 57.6	95.6	85.6		95.6		55.6 87.7	1 5 • 6
≥ 1800 ≥ 1500	'• 1 1 • 4	35.0 88.2	87.0 87.4	91.7	88 - 1 VC - 7	88.2 90.8	25.3	78.4 71.0	48.4 91.5	35.4 41.0	86.4 91.1	91.1	5 F. A	48.5 Clel	48.5 91.1	21.1
≥ 1200 ≥ 1000	, ,	≎ C . 4	97	71.6	93.6	42.3 93.8	92.4	97.5	ଚଥ•" ୱଷ•ମ	92.5 94.1	92.6 54.1	72.6 54.1	92.6 24.1	92.5	92.6	74.0
≥ 900 ≥ 900	3	70.7	97.2	93.2	94 • C	24.2 25.2	94.4	95.5	94.5 95.6	95.6	94.5 95.6	95.6	45.7	95.7		
≥ 700 ≥ 600	13.4 13.1	71.4	93.4	95.0		95.8	96.1	96.2 97.0	96.7		96.3	97.1	95.4	97.1		97.2
≥ 500 ≥ 400	3 • 6 3 • 6	92.1 92.2	94.3	95.6	96 • 7 97 • 1	97.1 97.5	97.5	99.3	97.7 98.3	97.8 98.5	98.6			98.7	98.7	95.7
≥ 300 ≥ 200	13.6 13.2	°2.3	94.3	95.8 95.8		97.7	98.4		98.7	94.2	99.1		99.2	39.6	99.6	99.0
≥ 100 ≥ 0	- 3 • 4 - 5 • 4	\$2.3	94.3	95.8	97.4	97.8	98.4	9.8 6.8	99.9	99.2	99.5	1				99.9

TOTAL NUMBER OF OBSERVATIONS\_

29211

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DALLAS, TX

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JAN

STATION

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MONTH

# PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

MONTH	HOURS			_	PERCENTAG	E FREQUEN	CY OF TENT	IS OF TOTAL	SKY COVER				MEAN TENTHS OF	TOTAL NO. OF
MONIA	(L.S.T.)	0	1	2	3	4	5	6	7	8	9	10	SKY COVER	OBS.
JAN	00	37.7			17.9						3.1	41.3	5.2	310
	0.3	39.4			7.7						10.0	42.9	r , 4	313
	06	32.9			14.8						8.7	43.5	5.6	310
	29	17.4			17.4						14.5	50.6	5.9	310
	12	20.6			16.1						15.8	47.4	5.5	310
	15	19.0			19.0						15.1	45.8	€ .6	310
	18	19.4			23.9						13.5	43.2	6.3	313
	21	37.7			12.6						3.1	41.6	5.3	310
					1									
TO1	TALS	24.0			15.6						11.9	44.5	6.D	248

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MONTH

# PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

	HOURS				PERCENTAG	E FREQUEN	CY OF TENT	HS OF TOTAL	SKY COVER				MEAN TENTHS OF	TOTAL
HTMOM	(L.S.T.)	0	1	2	3	4	5	6	7	8	9	10	SKY COVER	NO. OF OBS.
LEE	50	30.4			16.7						8.9	35.1	4.8	292
	0.3	39.0			14.5						3.2	36.3	5.0	2 4 2
	Do	32.3			13.8						9.9	44.0	5.7	282
	0.9	20.2			14.5				<del> </del>		15.1	47.2	6.8	292
	12	22.7			14.2						18.4	44.7	4.6	282
	15	19.1			23.4						14.9	42.6	6.3	292
	19	21.6			22.7						21.5	30.0	5.0	2 = 2
	21	35.5			18.4						12.8	33.3	5.0	2 8 2
							<u> </u>		! 	<del> </del>				
					ļ ——		1							
							<del> </del>							
701	TALS	28.7			17.3				1		14.1	39.9	5.8	2256

DALLAS, TX

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# PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

	HOURS				PERCENTAG	E FREQUEN	CY OF TENT	HS OF TOTAL	SKY COVER				MEAN TENTHS OF	TOTAL NO. OF
MONTH	(L.S.T.)	0	t	2	3	4	5	6	7	8	9	10	SKY COVER	OBS.
MAR	60	35.8			17.7						16.9	29.7	٠.0	315
	03	31.6			11.3						16.5	40.3	5.9	310
	Co	25.2			11.3						19.0	44.5	5.5	310
	1.0	17.1			13.9						18.7	50.3	7.1	310
	12	14.5	<del></del>		21.3						21.0	43.2	6.8	310
	15	18.7	<u> </u>		17.1						26.8	37.4	6.7	31:
	16	20.3			19.7						20.3	39.7	6.4	310
	21	33.2			18.1						14.5	34.2	5.3	310
												<u> </u>		
101	TALS	24.6			16.3						19.2	39.9	6.2	2440

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STATION NAME

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PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

MONTH	HOURS				PERCENTAG	E FREQUENC	Y OF TENT	IS OF TOTAL	SKY COVER				MEAN TENTHS OF	TOTAL NO. OF
MONIN	(L.S.T.)	0	1	2	3	4	5	6	7	8	9	10	SKY COVER	O85.
APR	กอ	31.7			21.3						15.7	31.3	5.2	310
	03	32.7			14.0						14.7	34.7	5.6	300
	76	17.7			18.7					i	20.7	43.0	F 7	11:0
	Дa	15.7			17.3						21.3	45.0	6.0	100
	12	15.7			18.3						30.3	34.7	€.7	300
	15	18.0			19.3						27.7	38.n	٤.6	370
	1 6	21.7			20.3					!	22.0	36 • C	6.2	377
	21	34.7			22.3				1	; -	14.7	20.0	4.9	370
										<u> </u>	+	<u> </u>	<del> </del>	
·												!		
·						<del></del>					<del> </del>			
101	TALS	21.7			15.9			<b> </b>			20.0	36.6	6.1	2900

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PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

STATION NAME

MONTH	HOURS				PERCENTAG	E FREQUENC	CY OF TENT	HS OF TOTAL	SKY COVER				MEAN TENTHS OF	TOTAL NO. OF
MONIH	(L.S.T.)	0	1	2	3	4	5	6	7	8	9	10	SKY COVER	OBS.
MAY	יים	33.7		}	16.6						19.1	31.3	5.3	310
	0.3	31."			20.0						11.9	37.1	E . M	317
	i.e	13.0			22.3						71.7	41.4	6.8	310
	39	15.5			22.7						26.5	35.9	5.6	309
···	12	12.9			50.6				i		36.1	30.3	5.9	310
	1 0	14.2			27.4						33.0	24.5	6.3	310
	1	17.4			34.2						21.3	27.1	5.7	310
	21	33.2			21.9						13.1	26.8	5.0	217
											+			
											+			
101	TALS	21.5			23.2						23.5	31.9	6.7	2479

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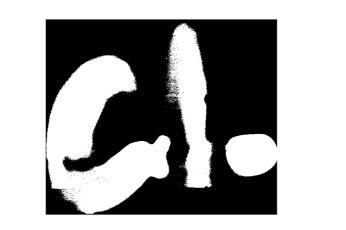
STATION

STATION NAME

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

	HOURS	j			PERCENTAG	E FREQUENC	CY OF TENTI	IS OF TOTAL	SKY COVER				MEAN	TOTAL
HTMOM	(L.S.T.)	0	1	2	3	4	5	6	7	8	9	10	TENTHS OF SKY COVER	NO. OF OBS.
الانال	22	51.7			16.0					İ	13.7	18.7	7.6	37.
	0.3	4:.3			18.3				:		18.0	23.1	4.5	30
	76	17.3			28.3			1			26.3	28.3	5.2	3 7 (
	E9	19.0			24.7						33.7	22.7	5.3	7.7
	12	16.7			33.0			!			37.7	12.7	. 6	.*-
	1 %	13.7			41.0			1	:		32.0	13.3	٠.4	31
	1	17.			47.3		·	:			22.3	11.3	4.6	•
	71	42.3		!	27.7						12.0	14.0	* **7	Ţ 1)
								1						-
	!						!		i			+		
											1		•	
										!		-	•	
101	ALS	27.5			29.5				!		24.5	10.5	4.9	?47;

4.4 SUMMARY OF METEOROLOGICAL DBSERVATIONS SURFACE ISMOS) DALLAS TEXASCUI NAVAL OCEANOGRAPHY COMMAND DETACHMENT ASHEVILLE NC. AUG 84 PD #150 599 F/G 4/2 ME UNCL ASSESSED IFF





MICROCOPY RESOLUTION TEST CHART

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# PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

MONTH	HOURS				PERCENTAG	E FREQUENC	Y OF TENT	HS OF TOTAL	SKY COVER				MEAN TENTHS OF	TOTAL NO. OF
MONTH	(L.S.T.)	0	1	2	3	4	5	6	7	8	9	10	SKY COVER	085.
JUL	าย	47.6			24.9						15.5	12.0	3.3	359
	73	48.7			25.2						13.9	12.3	3.2	310
	36	24.2			37.7	-					20.6	17.4	4.7	310
	0.9	32.3			31.6						23.5	12.6	4.3	310
	12	11.6			51.9						24.5	11.9	5.0	310
	15	6.8			49.4						30.0	13.9	5.6	310
	18	15.5			49.7						19.4	15.5	4.8	310
-	21	40.6			33.2						14.5	11.6	3.5	310
											-			
TOT	ALS	28.4			38.0						20.2	13.4	4.3	2479

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PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

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MEAN TENTHS OF SKY COVER TOTAL NO. OF OBS. PERCENTAGE FREQUENCY OF TENTHS OF TOTAL SKY COVER HOURS (L.S.T.) MONTH 0 3.2 αn 51.0 22.6 13.2 13.2 310 AUS 18.1 13.9 3.7 310 03 46.8 21.3 27.4 15.5 5.1 31C 06 20.0 37.1 09 31.3 29.7 22.9 16.1 4.6 310 29.4 15.2 5.5 310 43.9 12 11.6 35.2 11.0 5.6 310 15 7.7 46.1 19.4 41.6 24.2 14.5 4.9 310 18 10.0 317 21 40.6 26.8 33.6 24.1 13.7 2480 TOTALS 28.6 4.6

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DALLAS, TX

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MONTH

# PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

MONTH	HOURS				PERCENTAG	E FREQUEN	CY OF TENT	HS OF TOTAL	SKY COVER				MEAN	TOTAL NO. OF
MONTH	(L.S.T.)	0	1	2	3	4	5	6	7	8	9	10	TENTHS OF SKY COVER	OBS.
SEP	na	44.7			18.3						15.0	22.0	4 • 1	30
	03	47+0			17.7						11.7	23.7	3.9	301
	06	24.3			30.7						17.7	27.3	5.2	30
	η <b>9</b>	24.3			24.3						24.3	27.3	5.7	300
	12	13.0			34.3						29.3	23.3	6.0	30
	15	13.3			33.7						32.7	20.3	4.3	30
	18	19.0			37.0						24.3	19.7	5.3	30
	21	44.0			20.0						15.3	20.7	4.0	30
TOT	ALS	28.7			27.0						21.3	23.0	5.0	240

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DALLAS, TX

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STATION NAME

PERIOD

MONTE

# PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

Manager	HOURS				PERCENTAG	E FREQUEN	CY OF TENT	HS OF TOTAL	SKY COVER				MEAN TENTHS OF	TOTAL NO. OF
MONTH	(L.S.T.)	0	1	2	3	4	5	6	7	8	9	10	SKY COVER	OBS.
o <b>c</b> T	00	49.0			17.4						14.2	19.4	3.7	311
	03	45.8			16.1						13.9	24.2	4.2	311
	06	32.6			21.6						16.5	29.4	5.1	31
	09	25.5			23.5						20.0	30 . 6	5.6	310
	12	29.0			22.9	· · · · · · · ·					23.5	24.5	5.3	31
	15	26.8			25.5						24.5	23.2	5.3	31
	18	31.0			27.7						22.6	18.7	4.7	31
	21	50.3			19.0						13.2	17.4	3.5	31
<u> </u>						· · · · · · · · · · · · · · · · · · ·								
TO1	TALS	36.3			21.7						18.6	23.4	4.7	248

93901 DALLAS, TX

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STATION NAME

# PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

	HOURS	Ì			PERCENTAG	E FREQUENC	Y OF TENT	HS OF TOTAL	SKY COVER				MEAN TENTHS OF	TOTAL NO. OF
MONTH	(L.S.T.)	0	1	2	3	4	5	6	7	8	9	10	SKY COVER	OBS.
MOV	00	43.3			13.3						11.7	31.7	4.6	300
	03	40.3			11.7						10.0	38.0	5.1	300
	06	35.7			14.0						10.3	4D.0	5.4	370
- "	39	24.0			17.0						18.3	40.7	6.2	300
	12	27.7			18.7						17.7	36.0	5.8	300
	15	27.3			20.0					-	21.0	31.7	5.7	300
	18	25.7			27.3						16.0	31.0	5.4	300
	?1	46.0			13.7						12.0	28.3	4 . 3	308
			<del>-</del>								-			
TOT	ALS	33.9	<del></del>		17.0						14.6	34.7	5.3	2471

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# PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

	HOURS	1			PERCENTAG	E FREQUENC	Y OF TENT	HS OF TOTAL	SKY COVER				MEAN TENTHS OF	TOTAL NO. OF
MONTH	(L.S.T.)	0	1	2	3	4	5	6	7	8	9	10	SKY COVER	CBS.
CEC	ממ	42.9			14.2						12.6	30.3	4.6	310
	03	45.5			12.3						10.3	31.9	4.5	310
	26	41.9			13.5						7.4	37.1	4.8	310
	09	25.5	- <u></u> -		20.0						16.8	37.7	5.9	310
	12	24.8			20.0						19.0	36.1	5.9	310
	15	25.8			19.7						24.7	30.3	5.8	310
	18	27.5			24.9		***				18.1	29.4	5.3	309
	21	42.4			13.9						12.6	31.1	4.7	309
								-						
TO	TALS	34.5			17.3						15.1	33.0	5.2	2478

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STATION NAME

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

********	HOURS	]			PERCENTAG	E FREQUENC	Y OF TENT	HS OF TOTAL	SKY COVER				MEAN TENTHS OF	TOTAL NO. OF
MONTH	(L.S.T.)	0	1	2	3	4	5	6	7	8	9	10	SKY COVER	OBS.
JAN	ALL	28.0			15.6						11.9	44.5	6.0	2489
FER		29.7			17.3						14.1	39.9	5.8	2250
MAR		24.5			16.3						19.2	39.9	6.2	2480
190		23.7			18.9						20.9	36.6	6.1	2400
MAY		21.5			23.2	•					23.5	31.9	6 • C	2479
JUN		27.5			29.5						24.5	18.5	4.9	2400
JUL		28.4			38.0						20.2	13.4	4.3	247
AUG		23.6			33.6						24.1	13.7	4.6	2480
SEP		28.7			27.0						21.3	23.0	5.0	2400
OCT		36.3			21.7	4 11					18.6	23.4	4.7	2450
NOV		33.8			17.C						14.6	34.7	5.3	2400
DEC		34.5			17.3						15.1	33.0	5.2	247
, TO	TALS	28.7			23.0	*					19.0	29.4	5.3	29212

NOCD, Federal Building Asheville, N. C.

#### PART E

#### PSYCHROMETRIC SUMMARIES

In this section are presented various summaries of dry- and wet-bulb temperatures, dew points, and relative humidity. The order and manner of presentation follows:

- Cumulative percentage frequency of occurrence derived from daily observations and presented by month and annual for all years combined. These tabulations provide the cumulative percentage frequency to tenths of temperature by 5-degree Fahrenheit increments, plus mean temperature, standard deviation, and total number of observations in three separate tables as follows:
  - a. Daily maximum temperature
  - b. Daily minimum temperaturec. Daily mean temperature
- 2. Extreme values derived from daily observations with extreme value given for each year and month of record available. Extremes are provided for a month if all days for a month contain valid observations. All months for a year must have valid extremes before the ANNUAL value is selected for that year. Means and standard deviations are computed for months and annual when four or more values are present for any column. Two tables of daily extreme temperatures are prepared:
  - a. Extreme maximum temperature

NOTE: A supplementary list also provides extreme temperatures

b. Extreme minimum temperature

when less than a full month is reported.

- 3. Bivariate percentage frequency distribution and computations of dry-bulb versus wet-bulb temperature. This tabulation is derived from 3-hourly observations and is presented by month and annual, all hours and all years combined. The following information is provided:
  - The main body of the summary consists of a bivariate percentage frequency distribution of wet-bulb depression in 17 classes spread norizontally; by 2-degree intervals of dry-bulb temperature vertically. Also provided for each dry-bulb temperature interval is the total no. of observations with dry-bulb and wet-bulb temperature combined; and again for dry-bulb, wet-bulb, and dew-point temperatures separately. Total observations for these four items is also provided in two lines at end of each tabulation takle, which may require two pages in some cases.

NOTE: A percentage frequency in this table of ".0" represents one or more occurrences amounting to less than .05 percent.

- b. Statistical data for the individual elements of relative humidity, dry-bulb, wet-bulb, and dew-point temperatures are shown in the section at the bottom left of the forms. These consist of the sum of squares  $(\sum X^2)$ , sums of values  $(\sum X)$ , means  $(\overline{X})$ , and standard deviations  $(\sigma x)$ . The number of observations used in the computations for each element is also shown.
- c. At the lower right of the form are given the mean number of hours of occurrence for six ranges of dry-bulb, wet-bulb, and dew-point temperatures, and total number of hours possible in the period represented. Mean number of hours is shown to tenths and indicates mean number of hours per year in the annual summary, or mean number of hours per month in the tabulations by month.

NOTE: Wet-bulb temperature usually was not reported prior to 1946. Relative humidity usually was not reported prior to 1949, nor subsequent to June 1958; and was computed by machine methods for observations recorded during these periods. All values of dew-point temperature and relative humidity are with respect to water, unless otherwise indicated.

- 4. Means and standard deviations These tabulations are derived from hourly observations and present the mean, standard deviation, and total number of observations for the eight standard 3-hour groups, by month and annual and again at the bottom for all hours combined. Records for all years available are combined. Tables are prepared for the following:
  - a. Dry-bulb temperature
  - b. Wet-bulb temperature
  - c. Dew-point temperature
- 5. Cumulative percentage frequency of occurrence of relative humidity This summary is derived from hourly observations and presents the cumulative percentage frequency of occurrence of relative humidity by increments of 10% classes, plus the mean relative humidity and total number of observations in two tables.
  - a. Table 1 is prepared by month and annual, all years combined, with month being the vertical argument.
  - b. Table 2 is prepared by month by standard 3-hour groups, with the hour groups being the vertical argument and a separate page for each month. All years are also combined for this summary.
  - Percentage frequency of occurrence of dry-bulb temperature versus wind direction This tabulation is derived from hourly observations and is presented by month and annual, all hours and years commined. The main tody of the summary consists of dry bulb temperatures spread vertically in four degree increments and horizontally by eight wind directions (plus calm).

### **DAILY TEMPERATURES**

STATION STATION NAME YEAR

# CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE (FROM DAILY OBSERVATIONS)

TEMP (*F)	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	ANNUAL
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### **DAILY TEMPERATURES**

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE

	TEMP (°F)	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	ост.	NOV.	DEC.	ANNUAL
_		1				•		. 7	• 3		-			•
_		†		•			7.7	16.5	16.6	1.5				•
_	····	<del> </del>			• 3	3.	19.1	74	57.1	18.9	1.5			1 •
	•	†		•	4.2	23.5	71.7	75.3	89.7	45.9	8.7	. 4		
_	્ દ્	• 1	• 2	3.2	17.3	50.7	91.3	79.2	98.3	71.4	72.2	3.0		3 .
_		1.4	1.9	17.7	39.3	76.6	97.3	39.0		86.4	42.6	10.0	7.7	47.
_		4.5	7	21.5	50.3	99.5		1:0.0	13340	75.7	61.3	17.	6.5	55.
-	<del></del>	1 3 . ?	14.5	38.7	76.6		1 3.0			18.9	77.7	32.4	11.9	63.
	<u> </u>	+ 17.7	76.4	56.4	88.8	99.5	1 0 1 0			170.0	71.5	51.7	?2.2	71.
-		+	43.7	73.8	95.2	99.9	<del></del>			1 0 0	57.3	69.7	40.4	74.
<u>.                                    </u>	7:	4 4 4 6	64 A	27.4		100.5		<del></del>			119.7	35.5	64.2	37.
	<del></del>	6 .6	31.4		100.0	1 1100					112.5	75.4	P2.3	9 .
-	<del></del>	* 2 .6	73.3	78.5	3 (10 )						1 50	75.7	92.9	27.
<u>-</u>		1.5	78.5	79.5							·	79.3	77.7	94
- -		4	39.3	39.A		<del></del>						150.7	79.6	90
	- : :			120.0								1000	1"0."	2.3
		<b>*</b>	170.6	1.0.0									1 00	173.
	·	*	1 9 1 1											
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_	S. D.	100000	9.379	120127	8.715	6.955	5.278	3.669	4 . 2 9 6	7.96	9.027	13.7PA	9.621	16.00
_	TOTAL OSS.	। इ.स.च्डा	1344	1176	11 78	1178	1140	1143	1178	114	1172	1137	1130	1500

### **DAILY TEMPERATURES**

STATION NAME

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE (FROM DAILY OBSERVATIONS)

TE	MP (°F)	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JŲŁ.	AUG.	SEP.	OCT.	NOV.	DEC	ANNUAL
≥							• 1	1.	• 6					•
≥	, *						5	?2.	22.3	<b>Z</b> •			•	
≥						2.1	37.	72.1	62.5	20.7	• .			1
≥				•	2.3	2".4	72.4	72.8	91.9	5 2	7 . 5.			•
≥	77		• 1	3 . 4	14.5	51.5	71.4	99.4	97.2	75.3	25.6	2.3	•1	7 . 5
≥			1.7	11.4	39.0	70.7	98.0	100.0	(5.8	90.4	4 . 1	3.4	1.5	46.6
≥	₹.		5.3	24.7	62.9	21.2	19.7		100.0	77.C	7000	21.	. 6	57.0
≥		11	17.6	43.9	3 .7	97.5	1 0.3		•	79.4	- C 5 • ±	1.6	12.	Ki.
≥	<u> </u>	1	31.5	52.8	72.4	79.6				F.J.5	0.3	56.	. d • 1	7
≥		34.0	49.5	77.3	94.6	102.5					C 5 . 7	74.	45.7	a V.
≥	4	F-5-, 7	56.9	88.3	9.8	· · · · · · · · · · · · · · · · · · ·			·		5.3	98.7	67.8	
≥	4, 7	6 .	22 ° E	75.2	9.9						! • ?	95.7	F3.7	3 . 6
≥	₹-	• শ্লু	₹ <b>?</b> • ↑	47.5	173.5							79.	97.7	0.7
≥	7		7.6	79.5		······································			• • • •			77.6	\$7.7	\$ 7 <del>. 1</del>
≥		5.7	99.4	79.7								100.0	-7.2	ু কুলু কুলু কুলু কুলু কুলু কুলু কুলু কু
≥	17 1	•	29.9	1 2.5									172.7	70.9
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	MEAN	44.	<del>49.3 +  </del>	***	35.4	74.1	****	75.4	89.4	70.7	****	***	40.0	78.5
<del></del>	S. D.	18 a H - 1	-577k	-12-	l	7.375			व , व ल्ह		.177		2.415	
	J. D.	н - Т		-						- :	(			

## DAILY AVERAGE/EXTREME TEMPERATURES

STATION STATION NAME YEARS . MONTH

	MEAN	TEMP		M	AXIMUM TE	MP			M	IINIMUM TE	MP	
1	AVER	AGE	AVERA	AGE	EXTR	EME		AVERAG	E	EXTR	EME	
DAY	°F	°C _	°F	°c	°F	°c	DATE	°F	°c	°F	°c	DATE
1	ti ( • )	7 • 2	55.1	12.8	72	22.2	1076	34.9	1.5	12_	-11.1	1579
2	2	7.9	-5.6	13.1	77	25.0	1982	36.0	2.7	11	-11.7	1979
3	-3-3	6 • 3	53.9	12.2	73	22. 2	1971	32.6	. 3	13	-1'.6	1959
4	2.5	5.8	51.6	10.9	73	22 • 2	1955	33.4	. 8	7	-13.9	1947
5	3 - 4	6 • 3	53.9	12.1	7:	25.1	1956	33.1	. 6	9	-12.8	1947
6	.4.	7.2	55.5	13.1	70	26.1	19820	34.2	1.2	10	-7.2	1968
7	3.1	6.02	53.9	12.1	7 ;	26.1	1975	32.5		12	-11.1	1969
- 8 -	e/- 44 e	7.:	5 See 74	13.2	33.	, 28.3	1969	34.	1.1	1.7	-11.1	1976,
9	⊴??	6.1	2.5	11.9	8.5	29.4	1957	32.4	. 2	1.3	-1 .6	1977
10	-1.5	5.3	53.5	10.3	77	25.0	1963	32.5	. 3	7	-13.9	1962
11	1.	5 • 3	50.5	10.4	3.0	26.7	1971	32.2	• 1	£	-13.3	1962
12	3.1	6.2	52.1	11.2	76	24.4	19720	34.1	1.2	3	-16.1	1973
13	44.	7.1	53.0	12.2	7.7	22.2	1952	35.5	1.9	13	-1 .6	1064"
14	4 . +	7.4	56.1	13.4	76	24.4	1971	34.4	1.6	10	-12.2	1364
15	4 . 2	7.1	56.3	13.5	75	23.9	1952	34.7	1.1	14	-10.0	1972
16	4.7.	5.9	52.9	11.6	76	24.4	1952	32.3	• 2	16	-8.9	1385
17	4.4	6.9	54.7	12.4	70	26.1	1974"	34.2	1.2	1.1	-10.6	1902
18	45.	7.7	55.A	13.2	9.2	27.8	1974	35.7	2.1	17	-8.3	1977
19	4.1	6.3	72.6	11.4	84	23.9	1952	36.	2.2	13	-10.6	1363
20	4.5	6.9	54.8	12.7	80	26.7	1972	34.2	1.2	13	-1 .6	1943
21	4 3	7.4	54.7	12.6	80	26.07	1952	35 . 4	2.1	17	-2.3	10:0
22	• 3	7.8	57.2	14.5	3.2	27.3	1969	34.9	1.6	14	-10.0	1379
23	- 4 - 3	6.5	53.7	12.1	8.0	26.7	1976	34.9	1.6	11	-11.7	1956
24	46.7	8.2	54.4	14.7	8 4	20.7	1967	35.1	1.7	£	-13.3	1963
25	41.6	9.2	59.3	15.2	3.1	27.7	1952	37.8	7.2	7.2	-5.6	1963
26	97.4	3.6	57.7	14.3	7.3	26.1	1953	57.1	2.6	23	-5.0	19/35
27	4".2	7 . 3	55.1	12	8 1	27.2	1975	35.2	1.8	13	-10-6	1963
28	114,7	7.1	15.5	13.1	6.5	29.4	197	33.0	1.1	1 4	-10.0	1949
29	46.3	7.9	56.5	13.6	17	25.	1971	36 - 1	2.3	1	-12.2	1966
30	43.0	6.6	53.9	12.2	7 3	26.1	1967	33.4	1.		-17.5	1949
31	4.1	6.7	53.3	11.4	8.2	27.8	1974	35.	1.7	-2	-1 - 9	1969
Monthly	44.5	7.0	54.6	12.5	85	20.4	197	34.5	1.4	- 2	-1:.9	1940

\*ALSO ON EARLIER YEARS

## DAILY AVERAGE/EXTREME TEMPERATURES

TALLAS. TY 174:-1982 STATION NAME YEARS STATION MONTH

	MEAN	TEMP	1	M	AXIMUM TE	MP			М	INIMUM TE	MP	
	AVER	AGE	AVERA	AGE	EXTR	EME		AVERAG	E	EXTR	ЕМЕ	
DAY	°F	°c	° F	°c	° F	°c	DATE	°F	°c	°F	°c	DATE
1	45.7	7.7	56.2	13.4	38	31.1	1963	35.6	2.0		-12.9	1951
2	3.	t . 6	£3.4	11.7	76	74.4	1962	34.5	1.4	7	-12.5	1951
3	45.0	7.2	54.6	12.5	8	20.7	1976	35.4	1.0	2.0	-5.7	1972
4	47.6	9.7	57.8	14.3	79	26.1	1973	37.4	3.	20	-e . 7	1972
5	47.3	8.8	57.3	14.1	80	26.7	1967	38 • 2	2.4	_ ?	-6.7	1982
_6	44 6 3		55.7	13.2	7 2	25.6	1963	36 . 4	2.4	15	-9.4	1932
7	4 5	7.5	74.9	12.7	83	29.3	1969	36.2	2.3	1.4	-7.5	1975
- 8 -	• 47,4	-9.6	59.4	15.02	. 85	-30-0	1762	35 . 2	. L. 5	9	-12-5	1871
9	46.	8.2	57.8	14.3	87	30 - 4	1957	35.7	2.1	16	- 9 . 9	1979
10	47.5	8.7	55	15.3	8.6	33.5	1054	34.8	1.6	17	-8.3	1951
11	47.6	8.7	57.9	14.4	77	25.01	1 265	37.4	0.0	13	-10.6	1991
12	4 . 7	9.3	57.8	14.9	83	28.3	1974	38.7	3.7	21	-6.1	1943
13	4 7 . 9	9.9	62.2	16.5	81	27.2	1974	37.6	3.1	1.5	-7.8	19"
14	J • 4	10.2	/0.2	15.7	81	27.2	1955	40.5	4.7	2.2	-5.6	1951
15		3.9	59.8	15.4	70	26.1	1979 -	37.8	4.3	24	-4.4	1951
16	1 5	9.3	59.0	15.3	84	28.9	1976	38.1	3,4	5.5	-5.6	1979
17	3	9.6	£0.6	15.0	87	30.5	1959	38 • 1	3.4	21	-6.1	198"
18	5	10.4	60.6	15.9	80	26.7	1974	40.9	4.9	12	-11.1	1970
19		10.0	63.27	15.9	8.5	29.4	1949	39.2	4.0	13	-12.2	137A
20		10.5	51.8	16.6	9 -	32.2	1080	40.1	4.5	27	-2.£	1978
21		9.6	59.5	15.3	- 31	27.2	1982	38.9	7.8	71	-6.1	1979
22	33.9	9.9	60.2	15.7	87	30.6	1982	39.6	4.2	- 21	-6.1	1953
23	50.0	10.4	4.1.2	16.7	3.2	27.8	1982	47.4	4,7	2.2	-5.6	19:5
_24	49.3	9.5	10.6	15.9	85	29.4	1972	38.7	3,7	17	-9.3	1965
25	E 2 a 3	11.6	£ 4 . 4	19.0	85	29.4	1972	41.4	5.2	17	-8.3	196
26	2.5	11.4	43.2	17.3	87	30.6	1054	41.7	5.4	72	-5.6	1967
27	-3.4	12.1	64.0	18.3	8.2	27.8	1953	42.4	6.0	5 3	-2.2	1962
28	4.7	12.4	55.8	18.8	94	29.9	1.75 ,	42.5	6.	2.0	-6,7	1962
29	52.7	11.5	64.1	17.8	97	26.7	1976	41.4	5.2	26	-3.3	1968
30												
31	ļ											
Monthly	10.	9.4	5 . 6	15.3	90	32 • 2	1 280	38.5	3 . 6	9	-17.8	1971 *

\*ALSO ON EARLIER YEARS

4

# DAILY AVERAGE/EXTREME TEMPERATURES

TALLAS, TY 1945-1982 STATION STATION NAME YEARS MONTH

	MEAN T	EMP		M	AXIMUM TE	MP		<del></del>		MINIMUM TE	MP	
	AVERA	\GE	AVERA	GE	EXTR	EME		AVERA	GE	EXTR	EME	
DAY	°F	°c	°F	°c	°F	°c	DATE	°F	°c	°F	°c	DATE
1	(2)	11.6	64.1	17.8	85	29.4	1972	41.1	5.4	19	-7.2	1962
2	4.1	12.3	64.1	17.8	8.5	29.4	1974	44.1	6.7	17	-8.3	1980
3	73.7	12.1	53.7	17.6	86	37.0	1967	43.6	6.4	19	-7.2	1971
4	7 . 2	11.8	53.0	17.2	8.6	30.0	1976*	43,5	6.4	72	-5.6	1978
5	51.7	10.7	62.2	16.8	8.5	29.4	197411	41.7	5.1	26	-3.3	1965
6	1 . 1 . 1 .	11.5	63.3	17.4	86	30.7	1974 4	42.6	5.9	24	-4.4	1054
7	C 44 7	12.6	65.9	18.8	91	32.3	1972	43.4	6.3	20	-2.2	1982
8	13.1	11.7	53.8	17.7	84	28.9	1974	42.5	5,8	. 24	-4 .4	1967
9	54	12.7	65.7	18.7	81	27.2	1954	43.9	6.6	2.2	-5.6	1949
10	57.7	14.3	68.6	27.3	94	34.4	19550	46.7	8.2	76	-3.3	1969
11	4	14.4	68.7	20.4	95	35.	1955	47.3	8.5	12	-11.1	1943
12	۲. •	13.3	66.2	19."	93	33.9	1967	45.7	7.6	13	-10.6	1942
13	15.0	12.8	65.1	18.4	91	32.5	1971	44.7	7.2	23	-5.0	1948
14	<b>6</b> )	13.6	68.1	20.1	90	32 . ?	1967	44.0	7.1		-3.3	1975
15	£ ; , 7	13.5	67.3	19.6	82	27.8	1961	45.2	7.3	27	-2.8	1954
16	56.	13.8	67.9	19.9	ક ય	23.9	1982	45.6	7.6	73	-2.2	1947
17	5 .	14.7	7 3 - 0	21.1	87	30 • €	1772	47.1	8 • •	32	• 1	1967
18	5 . 7	14.8	48.7	27.4	8.8	31.1	1974	48.7	9.3	70	-1.1	1955
19	5,7	14.3	68.4	27.2	8.8	31.1	1952	46.0	8.3	?5	-3.9	1965
20	7 ( • 1	14.5	69.0	20.5	8.5	27.4	1952	47.1	9.4	7.2	-5.6	1965
21	57.1	13.9	68.7	20.4	8.5	29.4	1952	45.6	7.6	7	-1.1	1977
22	€ : • 4	14.7	75.1	21.2	85	29.4	1967	46.9	8.2	26	-3.3	1055
23	F 12 Q	15.5	71.8	22.1	8.3	31.7	1972	47.5	8.8	25	-3.9	1945
24	5 7	14.8	11.4	20.2	88	31.1	1072	49."	9.4	₹	-1.1	1974
25	57.5	14.2	67.3	19.6	8 6	29.4	1950	47.7	8.7	25	-3.9	1955
26	5. • 5	14.7	69.2	27.7	.^ 6	30.0	1976	47.8	9.8	23	-5.0	10.2
27	50.0	15.4	7' • 5	21.4	96	35,4	1756	49.1	9.5	2.2	-5.6	1955
28	1.5	16.4	72.8	22.7	9	32.2	1771	53.2	10.1	30	-1.1	1955
29	7.7	15.9	71.2	21.	9 ^	32.2	1967	50.5	10.3	* 7	-1.1	1975
30	A0	15.0	71.3	21.7	93	33.	1974	57.3	10.2	21	-2.2	1975
31	-3-5	17.6	74.6	23.7	100	37.8	1974	53.	11.7	3.7	2.5	1954
Monthly	* *	13.9	67.7	19.8	100	37.8	1974	46.3	7.9	12	-11.1	1948

\*ALSO ON EARLIER YEARS

# DAILY AVERAGE/EXTREME TEMPERATURES

STATION STATION NAME YEARS MONTH

	MEAN T	EMP		MA	XIMUM TE	MP				INIMUM TE	MP	
	AVERA	GE	AVERAC	iE.	EXTR	EME		AVERAG	E	EXTR	ME	
DAY	° F	°c	°F	°c	° F	°c	DATE	°F	°c	°F	°c	DATE
1	3.5	17.5	74.2	23.4	87	30.6	1974=	52.7	11.5	36	2.2	1954
2	· 4 <b>.</b> 5	18.1	76.4	24.7	8.8	31.1	1962	57.7	11.5	34	1.1	1952
3	14.0	17.8	74.6	23.7	9 "	32.2	1950	53.4	11.0	32	• 0	1975
4	1.7	16.5	72.1	22.3	8 ?	31.7	1978	51.2	10.7	3.5	· 3	1945
5	1.5	16.4	72.2	22.3	97	32.2	1967	57.7	10.4	3.5	1.7	195
6	4.1	17.8	75.3	24.6	95	35.0	1946	51.8	11.	7.7	2.8	195
7	55.	18.8	77.2	25.1	91	32.5	1980	54.6	12.6	۲ -	-1.1	1971
8	44.	19.3	74.9	23.8	<u> </u>	30.6	19670	54.7	12.7	37	2.8	1973
9	4 . 3	17.9	74.8	23.4	99	37.2	1963	53.8	12.1	33	.6	1973
10	64.2	19.2	74.8	23.3	100	37.8	1963	54.7	12.6	30	-1.1	1973
11	. 4 . 7	18.2	75.5	24.2	98	36.7	1948	53.9	12.2	3	3.3	1992
12	. 4 . 2	17.9	75.2	24.	93	33.9	1972	53.1	11.7	*3	•6	1957
13	3.2	17.3	73,5	23.1	91	32.8	1974 3	53.	11.7	32	.0	1957
14	5.4	18.6	76.1	24.5	8 7	31.7	1951	54.7	12.6	36	2.2	1985
15	5407	18.2	75.7	24.3	89	31.7	1967	53.8	12.1	41	5.0	19830
16	5.1	18.4	75.4	24.1	90	32.2	1967	54.9	12.7	39	3.0	1953
17	56	19.3	76.7	24.9	86	30.0	1963*	56.4	13.8	37	2.8	1947
18	57.7	19.8	77.7	25.4	8.9	31.1	1951	57.6	14.2	39	3.9	1953
19	62.0	20.5	7 . 2	26.2	91	32.A	1972	59.4	14.9	34	1.1	1953
20	57.3	19.9	77.7	25.4	90	32.2	1963	57.7	14.4	37	2.8	1953
21	<u> </u>	23.0	77.6	25.3	97	36.1	1955	58.3	14.6	42	5.6	1966
22	49.5	27.8	72.6	25.9	93	33.9	19-3	60.4	15.8	42	5.6	1959
23	4 . 9	21.1	79.2	26.2	9	32.2	1958	60.	15.8	44	6.7	1951
24	5:.9	20.5	78.8	26.0	8.8	31.1	1975	58.0	14.9	7.	3.3	1968
25	64.4	20.2	75.2	25.7	8.8	31.1	1954 >	58.6	14.8	9.5	7.2	1968
26	67.8	19.9	77.3	25.2	8.6	31.1	1955	58.3	14.5	46	7.8	1945
27	34.1	20.6	78.4	25.3	8.8	31.1	1948	59.8	15.4	44	6.7	1987
28	52.1	20.6	73.3	25.7	92	33.3	1948	60.1	15.6	44	6.7	198:
29		20.9	74.0	26.1	91	32 . 2	1981	50.3	15.7	41	5.3	1965
30	49.6	20.9	79.0	26.1	94	34.4	1981	60.3	15.7	46	7.8	1965
31			<u>-</u>									
Monthly	6.2	19.3	76.5	24.7	198	37.8	1963	56.7	13.3	70 ]	-1.1	1973

\*ALSO ON EARLIER YEARS

## DAILY AVERAGE/EXTREME TEMPERATURES

TALLAS, T.

1945-1982

Y

STATION

STATION NAME

YEARS

MONTH

Т	MEAN T	EMP		M	AXIMUM TE	MP			A	INIMUM TE	MP	
Γ	AVERA	GE	AVERA	GE	EXTR	ME		AVERAG	E	EXTRI	EME	
DAY	°F	°c	°F.	°c	°F	°c	DATE	°F	°c	°F	°c	DATE
1	7.7	20.6	78.7	25.9	92	33.3	1978	59.7	15.1	44	6.7	196
2	1.4 € £	70.7	79.6	26.4	90	32.2	1074	58.8	14.9	45	7.2	1967
3	**•1	21.2	79.8	26.4	90	32.7	1978*	60.4	15.8	41	5.0	1954
4	70.1	21.2	≘^•D	26.7	9.8	36.7	1947	60.3	15.7	39	3.9	1954
5	*^• <del>*</del>	21.4	' • 2	26.9	93	33.9	1947	61.0	15.1	46	7.8	1057
6	11.7	22.1	71.2	27.3	94	34.4	1967+	62.2	16.8	50	10.0	19570
. 7	11.4	21.9	21.2	27.3	93	33.0	1955	61.5	15.4	47	8.3	1948
8.	*	.22.3	<u> 3.7 .</u>	27.7	92	33.3	1.952	62.1	16.7	52	11.1	1982
9	2	22.9	82.8	28.2	98	36.7	1952	63.7	17.6	4.5	7.2	1969
10	'2.3	22.4	1.4	27.4	96	35.6	1967	63.3	17.4	52	11.1	1981
11	"1.2	21.8	88.3	26.8	100	37.A	1967	62.2	16.0	4.3	6.1	1981
12	1.	21.8	91.5	27.5	98	36.7	1979	61.2	16.2	45	7.2	1979*
13	12.1	22.3	2.6	28.1	94	34 4	1956*	61.7	16.5	45	7.2	1971
14	77.7	22.6	92.9	28.3	96	35.6	1955	62.4	16.	44	6.7	1971
15	77.1	22.7	32.5	28.1	94	34.4	1978	63.3	17.4	4	9.9	1973
16	7.7	22.8	52.7	28.2	93	33.7	1948	63.4	17.4	4.5	8.9	194
17	' i3 <b>4</b>	23.6	~4·6	29.2	94	34.4	19664	64.1	17.6	*6	7.8	194
18		24.0	85.0	29.4	96	35.6	1956	65.3	18.5	49	9.4	1968
19	75.6	24.2	95.2	29.6	96	35.6	1973	65.9	18.8	5.5	12 · R	1971
20	"4 • 4	23.6	4 4 • G	28.9	94	34.4	1956	64.7	18.2	52	11.1	1781
21	75.1	23.9	85.2	29.6	96	35.6	1973	64.9	18.3	5.2	11.1	1947
22	16.4	24.7	85.8	29.9	95	35.6	1948	67.3	19.4	5.1	10.6	1945
23	<b>*6</b> • €	24.4	85.7	29.8	95	35.6	1762	66.2	17.0	53	11.7	1945
24	<u>-5.7</u>	24.8	3 5 . 9	29.9	94	34.4	1962 0	67.6	19.8	61	15.1	1979*
25	76.8	24.9	67.0	30.6	95	35.	1097	66.6	19.2	5.5	11.7	19 1
26	77.1	25.1	87.2	30.7	97	36.1	198	66.9	19.4	4.5	12.8	1947
27	7.7	25.1	s 7 • 2	30.7	100	37.8	1958	67.1	19.5	51	1 .6	1461
28	77.5	25.3	7.4	30.8	96	35.6	1951	67.6	19.8	57	13.9	1968
29	7.1	25.1	7.5	30.3	97	36.1	1951	66.8	19.3	49	9.4	1947
30	76.2	25.7	88.3	31.3	76	35.6	19580	69.2	20.1	46	7.8	1947
31	73.0	25.6	\$7.7	37.9	96	35.6	1971	68.3	20.2	55	13.3	1975
Monthly	73.8	23.2	.3.7	29.7	100	37.8	1967+	64.0	17.8	39	3.9	1954

\*ALSO ON EARLIER YEARS

# DAILY AVERAGE/EXTREME TEMPERATURES

°01 1945-1962 STATION STATION NAME YEARS MONTH

	MEAN T	EMP			AXIMUM TE	MP				MINIMUM TEI	MP	
Ī	AVERA	GE	AVERA	GE	EXTR	EME		AVERAC	3E	EXTRE	ME	
DAY	° F	°c	° F	°c	°F	°c	DATE	°F	°c	'F	°c	DATE
1	77.5	25.3	17.5	30.3	97	36.1	19537	67.6	19.3	e 24	12.2	1964
2	77.	25.1	27.4	30.5	100	37.8	1977	67.0	19.4	56	13.3	1969
3	76.5	24.9	35.4	30.2	100	37.3	1960	67.2	19.6	r 3	11.7	1946
4	7.5.4	25.8	38.3	31.3	77	77.2	19774	68.4	20.2	54	12.2	1954
5	79	26.1	38.5	31.4	104	43.0	1948	69.3	20.8	5.4	12.2	1970
6	<u>:0.:1</u>	26.9	91.2	32.7	152	38.9	1948	69.8	21.0	55	12.8	1970
7	1.5	27.6	91.4	33.5	9.8	36.7	1948	71.7	22.1	60	15.6	1970
8	1.5	27.8	72.2	33.4	101	33.7	1956	72.1	22.2	64	17.8	19779
• 9 •	• • 1., •	27.4-	•9C • 7	32.4	99	37.2	1977	72.1	22.3	67	15.6	1955
10	1.9	27.7	91.9	33.3	93	36.7	1963*	71.7	22.2	<b>5</b> 5	14.4	1755
11	1.2	27.9	:0.8	32.7	101	32.3	1953	71.8	22.1	56	13.3	1955
12	1.2	27.3	01.3	32.0	102	33.9	1953	71.1	21.7	59	15.0	1979
13		27.8	91.9	33.3	101	3 - 3	1953	72.1	22.3	6.3	17.2	1970
14	2.6	28.1	22.7	33.7	105	40.6	1953	72.4	22.4	5.4	12.2	1047
15	2.4	28.0	92.4	33.5	11.2	39.9	1967	72.4	22.4	5.7	17.9	1947
16	1.	27.5	71.4	33.	9.9	37.2	1948	71.7	22.1	61	16.1	1961
17	1.9	27.7	91.6	33.1	100	37. R	1952	72.2	22.3	6.C	15.6	1041
18	2.5	28.1	22.3	33.5	101	35.3	1953+	72.8	22.7	5	15.6	1345
19	<u> </u>	28.4	93.5	39.2	101	36.3	1759*	73.	22.8	62	16.7	1973
20	1.1	28.4	3.2	34.0	103	39.4	19724	73."	22.3	61	16.1	1976*
21	2.8	28.3	53.1	33.	194	40.0	1953	72.8	22.7	63	17.2	1976*
22	3.	28.6	93.1	33.7	103	39.4	1953	73.9	23.3	6.2	17.2	1961
23	3.7	28.7	?3.6	34.2	193	39.4	1980	73.9	23.3	64	17.8	1973
24	- 3	28.5	72.7	33.7	104	<b>●○.</b> 0	1987	73.9	23.3	6.4	17.8	1973
25	3.3	28.5	₹3.2	30.1	103	42.2	1980	73.3	22.7	5.0	15.6	1974
26		28.5	-3.1	33.7	112	44.4	198^	73.5	23.1	5.8	14.4	1958
27	4.2	29.0	74.1	34.5	111	43. 7	1987	74.4	23.6	59	15.0	1956
28	^4 . 17	29.2	74.5	34.7	110	43.3	198-	74.7	23.7	56	13.3	1946
29	4.7	29.3	34.5	34.7	106	41.1	198	74.9	23.9	6.0	17.8	1048
30	13.1	29.5	94.9	34.7	105	40.6	1 280	75.4	24.1	6.9	?೧∙೧	1950
31						1						
Monthly	1.7	27.7	91.8	33.0	112	44 . 4	1983	72.C	22.2	53	11.7	1946

\*ALSO ON EARLIER YEARS

# DAILY AVERAGE/EXTREME TEMPERATURES

STATION STATION NAME YEARS MONTH

	MEAN	TEMP		М	AXIMUM TE	MP			- N	AINIMUM TE	MP	
	AVER	AGE	AVERA	GE	EXTR	EME		AVERAG	E	EXTR	ME	
DAY	°F	°c	°F	°c	° F	°c	DATE	°F	°c_	°F	°c	DATE
1	14.3	29.3		34.0	108	42.7	1987	74.8	23.8	67	19.4	1950
2	15.3	29.6	95.4	35.2	109	42.2	198 '	75.2	24.0	6.8	27.5	1945
3	c , 4	29.7	95.4	35.2	106	41.1	108	75.5	24.2	68	27.0	1948
4	5 . 3	29.5		35.1	104	40 • C	1979	75.4	24.1	67	19.4	1468
5	5.1	20,5	25.1	35.1	103	37.4	1978 -	75.0	23.7	67	19.4	1964
6	5 • 3	29.6	95.2	35.1	103	37.4	1954	75.4	24.1	5.2	16.7	1977
7	5.5	29.7	95.8	35.4	104	40.0	1970	75.3	24.1	54	17.8	1368
8	- 5 . R	29.9	25.9	35.5	107	41.7	1956	75.7	24.3	67	19.4	1952
9	5.46	30.3		36.	10€	41.1	.1976	76.3		4:3	*17-82	1952
10	6.1	30.1	75.5	35.3	100	೨.6	1578+	76.2	24.6	45	18.3	1952
11	f • 7	30.1	ಿ6.6	35.9	107	41.7	1954	75.8	24.3	7	21.1	1945
12	6.	30.3	6.7	35.9	109	42.3	1954	76.2	24.6	. 6	16.0	1953
13	6.7	30.1	20.03	35.7	105	40.6	19784	76.1	24.5	6.5	10.3	1953
14	b • 1	3:1.1	96.3	35.7	10"	4D • 6	1978	76.0	24.4	67	19.4	1001
15	6.3	30.1	26.1	35.6	111	43.0	1978	76.0	24.4	63	17.2	1967
16	6.	31.0	95.8	35.4	107	41.7	1980"	76.2	24.6	67	19.4	1967
17_	5.9	29.9	95.9	35.5	17.3	42.0	1954	75.8	24.3	63	20.0	1961
18	6.5	30.3	76.6	35.9	11 '	43.3	1 28 1	76.4	24.7	66	18.9	1945
19	£ •	30.0	≎5.9	35.5	104	40.0	1970	76.1	24.5	69	20.6	1945
20	. 7	29.9	95.8	35.4	104	40.0	1974	76.1	24.5	6.3	17.2	1947
21	5.1	70.1	6.1	35.6	107	41.7	1974	76.	24.4	4.7	19.4	197
22	€ • 5	70.3	6.7	36.1	107	41.7	1974	75.1	24.5	66	18.9	197
23	€ • 1	37.1	76.6	37.9	103	42.2	1974	75.7	24.3	64	17.8	197
24	7.	37.5	97.3	36.3	103	42.2	1954	76.8	24.0	67	19.4	1947
25	16.7	37. • 5	7.3	36.3	111	43.7	10.4	76.6	24.8	53	17.2	1972
26	5.4	30.2	96.4	35.3	1.16	41.1	1064	76.5	24.7	70	21.1	1962
27	ნ ა ნ	30.3	17.0	36.1	193	37.4	106.0	76.1	24.5	70	21.1	1971:
28	7.1	30.6	97.6	36.4	103	30.4	19784	76.5	24.7	7.3	21.1	1971
29	97.2	30.7	78.1	35.7	100	4.206	1974	75.3	24.6	1	21.1	1971
30	6.4	30.2	75.4	35.8	108	42.2	1957	76.5	24.7	6.2	16.7	1971
31	6.9	30.5	77.0	36.1	107	41.7	1967	76.8	24.9	5.8	14.4	1971
Monthly	6.1	30 • 1	6.3	35.7	111	43.0	1978+	76.0	24.4	58	14.4	1971

\*ALSO ON EARLIER YEARS

# DAILY AVERAGE/EXTREME TEMPERATURES

TALLAS. TE 1945-1982 A KUST YEARS MONTH STATION STATION NAME

	MEAN T	EMP		M	AXIMUM TE	MP			N.	MINIMUM TE	MP	
	AVERA	AGE	AVERAC	3E	EXTR	EME		AVERAG	Ε	EXTRE	ME	
DAY	° F	_°c	°F	°c	°F	_°c	DATE	<u>°</u> F	°c	_ °F	°c	DATE
1	t • 1	30.1	76.5	35.8	163	39.4	1983	75.7	24.3	54	17.8	1971
2	د د ت	29.7	75.7	35.4	154	42.2	19754	75.3	24.1	66	18.9	1973
3	5.1	30.1	~6.7	35.7	103	37.4	19679	75.5	24.2	64	17.8	1973
4_	6.3	30 . 3	10.7	35.9	103	40 6	1951	76.2	24.6	67	19.4	1974 >
5	6.6	39.3	<b>∵7.</b> 0	36.1	136	42.2	1964	76.2	24.6	63	17.2	1948
6	7.3	37.7	98.1	36.7	107	41.7	1956 -	76.4	24.7	6.5	18.3	19750
7	7.6	30.9	98.3	36.0	1 18	42.2	1953	76.7	24.9	56	18.9	1957
8	7.7	30.9	78.3	36.0	106	41,1	1970	77.7	125.50	• • 7•	27.1	1971
9	7. *	30.7	98.4	36.	107	41.7	1947	76.3	24.6	56	18.9	1953
10	6.9	30.5	7.8	36.6	108	42.2	1947	75.9	24.4	67	19.4	1959
11	0.4	30.2	9.60	36.0	100	42.	1954	75.6	24.3	67	19.4	195
12	5.7	29.8	06.2	35.7	10'	40.6	1948	75.2	24.0	6.2	17.2	1979
13	5.7	30.3	27.3	36.3	107	41.7	1969	75.8	24.3	66	10.9	1957
14	.7.3	357	97.8	36.6	106	41.1	1056+	76.9	24.9	67	19.5	1955
15	e • 6	30.3	56.6	35.9	106	41.1	1951	76.5	24.7	54	17.8	1955
16	6.8	30.4	77.3	36.3	197	41.7	1956*	76.3	24.6	5.8	50.0	1955
17	6.1	30.1	76.4	35.8	177	41.7	1951	75.8	24.3	68	20.0	1943
18	>•5	29.7	95.7	35.4	106	91.1	1951	75.3	24.1	69	20.6	1967
19	5,4	29.7	96.0	35.6	105	40.6	19490	74.3	23.8	€5	18.3	195
20		29.6	95.8	35.4	10 4	40.6	1948	74.8	23.8	67	19.4	1981 -
21	4.9	29.3	95.9	35.5	106	91.1	1948	73.8	23.2	63	17.2	195
22	14.1	28.9	25.2	35.1	105	40.6	1960	73.1	22.8	63	17.5	1956
23	· 4 • 4	29.1	95.3	35.2	137	41.7	1980	73.4	23.0	63	17.2	1949
24	- 4 - 5	28.9	94.7	34.8	104	40.0	19804	73.3	22.7	62	16.7	1966
25	3.9	28.8	94.4	34.7	134	40.3	1952	73.5	23.1	64	17.8	1966 *
26	74.1	28.9	94.2	34.6	102	38.9	19630	74.0	23.3	62	16.7	1966
27	٠٠ 4	29.1	94.7	34.8	104	40.0	1063	74.1	23.4	66	18.9	1949
28	13.9	28.8	53.8	34.3	102	33.9	1951	74.1	23.4	67	19.4	1961
29	3.5	28.7	93.4	34.1	10%	40.6	1967	73.8	23.2	64	17.8	1969
30	.3.7	28.7	94.2	34.6	108	42.2	1067	73.2	22.9	6.5	18.3	1946
31	3.2	28.4	73.1	33.7	124	40.0	1001	73.4	23.0	6.3	17.2	195.
Monthly	15.6	79,€	95.1	35.6	109	42.0	1964	75.1	23.9	62	16.7	1966*

\*ALSO ON EARLIER YEARS

## DAILY AVERAGE/EXTREME TEMPERATURES

901

TALLAS, TO

1745-1982

PT MREA

STATION

STATION NAME

YEARS

MONTH

	MEAN T	ЕМР		M	AXIMUM TE	MP	MINIMUM TEMP					
ſ	AVERA	√GE	AVERA	GE	EXTR	EME		AVERAC	SE.	EXTRE	ME	
DAY	°F	°c	۰F	°c	°F	°c	DATE	°F	°c	°F	°c	DATE
1	2.	28.1	72.5	33.4	104	40.0	1951	72.7	72.6	63	17.2	1955
2	2.1	28.2	≎2.5	33.8	105	40.6	1951	72.7	22.6	£ -	15.6	1774
3	2.7	28.2	43.2	34.0	104	40.0	1951	72.3	22.4	57	13.7	1974
4	2.4	26.5	€2.9	33.8	102	36.9	1978	72.0	22.2	51	10.6	1974
5	1 •	27.5	91.7	33.2	101	39.3	1947	71.4	21.9	5.3	11.7	1974
6	1.3	27.7	97.1	33.4	102	38.9	19630	71.5	21.9	51	10.6	1974
7	1.7	27.6	91.8	33.2	1.3	39.4	1963	71.5	22.	56	13.3	1:74
8	1.0	27.2	01.0	32.8	99	37.2	1972	77.9	21.	60	15.6	1974
9	10.2	26.9	90.4	32.4	102	34.0	1954	7~.0	21.1	57	13.9	1956
10	77.00	26.4	99.4	31.7	99	37.2	1987	69.7	2".9	57	13.9	1968
11	71.8	25.6	30.6	32.1	100	37.3	1963	69.1	2. • 6	52	11.1	1063
12	7 ) • [	25.2	89.7	32.1	100	37.8	1965	68.8	20.4	55	12.8	1955
13	7:•	25.6	38.5	31.4	105	37.9	1965	67.4	19.7	5.7	13.9	1974
14	76.7	25.9	98.9	31.6	103	39.4	1965	68.4	20.2	51	10.6	1045
15	7 - 1	21.6	88.4	31.3	101	38.3	1981	67.9	19.0	51	10.6	1945
16	77.2	25.7	88.3	31.3	1:2	39.9	1987	63.3	23.2	57	13.9	1073
17	17.6	25.3	27.8	31.	9.8	36.7	1982	67.5	19.7	53	11.7	1981
18	78.3	25.7	98.2	31.2	99	37.2	19874	68.4	2 2	9.7	9.4	1001
19		26.1	69.1	31.7	103	39.4	1955	69.8	2 .4	47	8.3	1981
20	7 .1	26.2	99.1	31.7	102	32.9	1953	69.?	2 ?	47	8.3	1971
21	17.5	25.3	57.2	30.7	99	37.2	1956	67.8	19.5	56	13.3	Jes's
22	75.7	24.4	95.5	29.7	99	37.2	1980	66.3	19.1	21	16.6	1982
23	75.4	24.1	95.7	29.8	97	36.1	1948	65.1	18.4	49	9.4	1975
24	5.1	23.9	24.8	29.3	9.8	36.7	1977	65.4	18.6	51	10.6	1975
25	25.2	24.5	55.1	29.5	99	37.2	1977	65.3	18.5	49	.u • 4€	1975
26	74.7	23.8	85.4	29.7	170	37.4	1977	64.3	17.9	51	10.6	1975
27	74.5	23.6	85.2	29.6	104	<b>40.</b> 0	1977	63.8	17.7	49	7.4	1948
28	3.8	23.2	4.8	29.3	104	40.0	1953	62.8	17.1	46	7.8	1967
29	74.	23.3	F.5.4	29.7	101	3 *	1953	62.6	17.5	45	7.2	1974
30	: • 2	22.9	65.0	29.4	9.6	35.7	1977+	61.3	16.3	4.5	7.7	1972
31												
Monthly	7:04	25.8	-8.7	31.5	101	40.6	1951	68.1	20.1	45	7.2	1974

\*ALSO ON EARLIER YEARS

## DAILY AVERAGE/EXTREME TEMPERATURES

FALLAS. T.

<u>194</u>5-1932

ACTOSED.

STATION

STATION NAME

YEARS

MONTH

	MEAN T	EMP		MA	XIMUM TE	MP		MINIMUM TEMP					
Γ	AVERA	GE	AVERAGE		EXTR	ME		AVERAGE		EXTRE	ME		
DAY	°F	°c	°F	<u>°c</u>	°F	°c	DATE	°F	°c	°F	°c	DATE	
1	77.9	22.5	24.9	29.4	111	36.3	1979	61.7	10.1	46	7.8	1972	
2	13.8	23.2	5.6	29.8	96	35.6	1982	57.	16.7	4.7	£ • 3	1975	
3	*3.3	22.9	23.7	28.7	9.9	36.7	1051	62.3	17.2	4.7	8.3	1961	
4	71.1	22.8	3.0	29.3	96	35.6	19820	63.3	17.4	4.5	7.2	1975	
5	2.4	22.4	2.3	27.7	23	36.7	1963	62.5	17.0	4.7	8.3	1975	
6	1.8	22.1	2,5	28.1	96	35.6	1956	61.1	16.2	47	6.3	1964	
7	17.45	21.4	1.4	27.4	96	35.6	19792	59.7	15.4	4 4	6.7	1952	
_ 8		21.1	1.6	27.6	97	35.1	1963	58.5	14.7	36	2.2	1952	
9	77.1	21.2	72.1	27.8	95	35.	1063	58.1	14.5	<b>υ</b> ]	5.0	1952	
10	13.4	21.3	1.4	27.4	94	34.4	1975	59.4	15.2	43	6.1	1972	
11	1.8	22.1	2.8	28.2	97	36.1	1979	6 ?	16.1	4 4	8.9	1005	
12	71.5	21.9	2.9	28.3	95	35.0	1979=	6~.1	15.6	7.8	3 - 3	1977	
13	1.2	21.0	2.3	274	95	35.0	1954	67.1	15.6	4.2	5.6	1969	
14	7	20.5	1.0	27.2	92	33.3	1972	58.5	14.7	7.9	3.3	1962	
15	6 . 9	20.5	79.9	26.0	91	32 • *	19620	59.1	15.1	46	7.8	1974	
16	57.6	19.8	79.	26.1	93	37.0	1972	56.2	13.4	77	2.8	1952	
17	5 . 5	19.8	75.7	25.9	96	35.6	1972	56.4	13.6	40	4 . 4	1967	
18	62.2	19.6	78.9	26.1	93	33.0	1972	55.7	13.2	72	•0	1945	
19	6.0	13.9	77.8	25.4	-91	32.5	1978 4	54.2	12.3	4.1	5.3	1976	
20	6.7	19.3	70.8	26.0	92	33.3	19752	54.6	12.5	36	2.2	1976*	
21	67.	19.4	75.4	25.5	91	32.3	1979	55.7	13.2	41	5.0	1976	
22	6.7	19.3	77.4	25.2	87	30.4	1951	55.3	13.3	4	4.4	1052	
23	5.4	13.6	75.9	24.4	87	30.6	1955	54.8	12.7	35	3 • 3	1952	
24	3.2	17.3	74.3	23.3	<b>8</b> 9	31.7	1947	52.5	11.4	40	4,4	1952	
25	52.7	17-1	74.1	23.4	97	32.2	1950	51.5	10.6	37	2.8	1945	
26	. 5 . 4	17.4	74.7	23.8	9-	32.2	19774	51.8	11.0	3.7	<u> </u>	1957	
27	2-5	16.9	73.6	23.1	37	37.5	1963	51.5	10.9	71	6	1957	
28	-2 - '4	16.9	72.7	22.6	89	31.7	195	52.2	11.2	34	1.1	1957	
29	/ 3 - 5	17.5	73.9	23.3	9.7	32.2	1977	53.2	11.8	36	2.2	1953	
30	15.2	18.4	76.1	24.5	91	32.	1951	54.3	12.4	31	6	198	
31	4 - 1	17.8	74.3	23.5	90	32.7	1277	54.7	12.2	35	3.0	1976	
Monthly	A	20.1	77.2	26.2	101	3 4 . 3	1979	57.2	14.0	3.1	6	108 -	

\*ALSO ON EARLIER YEARS

## DAILY AVERAGE/EXTREME TEMPERATURES

	MEAN T	EMP			AXIMUM TE	MP			N	MINIMUM TE	MP	
	AVERA	AGE	AVERA	GE	EXTR	EME		AVERAGE		EXTREME		
DAY	_ ° F	_°c	°F	°c	° F	°c	DATE	°F	°c	°F	°c	DATE
1	3.1	17.3	73.5	23.1	87	30.6	1955	5.7.7	11.5	3.6	7.2	1565
2	0.1	13.6	70.6	21.4	8.7	37.6	1978+	49.6	9.8	_	-1.1	1766
3	57.	13.0	67.3	19.6	8 0	31.7	194R	46.9	8.2	<b>Z</b> :	-2.2	1351
4	7.9.	14.5	69.1	20.5	91	32.2	1948	47.2	9.4	1	6	1967
5	. 7	14.5	59.6	20.9	9 5	29.4	1963	47.8	8.5	₹2		1970
6	51.7	14.8	69.5	20.3	5.5	29.4	1980	47.7	8.8	7.5	-2.2	1350
7	57.5	14.8	69.6	27.9	3.7	30.6	1080%	47.6	8.7	3.1	6	19.0
8	10.1	14.5	68.9	27.5	86	3	1980	47.3	9.5	31	6	1968
9	57.1	13.7	68.3	27.2	9	32.2	1985	45.9	7.7	30	-1.1	1955
10	57.0	13.9	6- • 2	27.1	8.5	29.4	1978	45.9	7.7	?!	-3.9	1900
11	6.0	14.6	75.4	21.3	8.2	27.9	1975	46.9	8.3	1	-7.8	19-
12	52.3	14.0	75.0D	21.1	6.5	29.4	1951	47.6	8.7	7.7	-2.6	1965
13	5 . 3	14.9	69.7	20.7	8.7	30 €	1951	48.0	A.9	*3	-1.1	19820
14	E - 4	14.7	67.9	10.9	8.5	29.4	1955	48.8	9.3	27	-2.8	1969
15	F: • 7	14.6	68.7	20.4	35	29.4	1965 0	47.9	8.8	25	-3.9	1947
16	۲, ۲	14.1	58.0	20.	a 3	2=.3	1952	46.6	8.1	27	-2.8	197
17	5.1	12.6	64.9	19.3	9.3	28.3	1952	45.3	7.4	20	-6.7	1959
18	54.	12.7	64.6	18.1	8 5	29.4	1973	45.1	7.3	2.2	-5.6	1951
19	5.5	13.1	56.1	13.9	8.7	36	1950	44,0	7.2	? 5	-3.9	19-1
20	54 . 7	12.6	65.9	18.8	8.5	29.4	1977	43.5	6.4	25	-3.2	1969
21	4,7	12.3	65.1	19.4	8 5	29.4	1967	43.3	6.3	* 5	-1.1	1019
22	4 .	12.3	64.3	17.0	85	27.4	1953	44.1	6.7	23	-2.2	1976
23	• •	12.3	64.9	18.2	85	29.4	1967	43.6	6.4	2.3	<b>-5</b> ."	1975
24	5.2 • •	11.6	62.4	16.9	8.9	31.1	1965	43.4	6.3	7.5	-5.6	197
25	56.63	13.5	56.2	20.1	9.6	30.0	1055	44.4	6.9		-3.9	195
26	-4.7	12.5	65.8	18.8	9 5	29.4	1965	43.5	6.4	27	-2 . 4	1976
27	1."	10.6	61.8	16.6	8 1	27.	1964	40.3	4.6	27	-2 • F	1975
28	2.5	7.4	5 7	14.8	8.3	28.3	1949	39.4	4 - 1	23	-5.C	1915
29	25.4	9.1	40.0	15.6	81	27.2	1949	36.3	2.7	15	-5.9	1976
30	10.4	13.2	41.6	16.4	8.2	27.F	195	39.2	4.	21	-6.!	1979
31										$\Box$		
Monthly	£ .	13.4	66.8	19.3	9.0	32 • "	10月 4	45.4	7.4	16	-8.9	1976

\*ALSO NEARLIER YEARS

4

NAVAL WEATHER SERVICE DETACHMENT ASHEVILLE, NORTH CAROLINA

## DAILY AVERAGE/EXTREME TEMPERATURES

STATION STATION NAME YEARS MONTH

	MEAN TE	MP		M	AXIMUM TE	MP				MINIMUM TE	MP	
	AVERA	GE	AVERA	GE	EXTR	EME		AVERA	GE	EXTR	EME	
DAY	° F	°c	°F	_°c	° F	°c	DATE	°F	°c	°F	°c	DATE
1	* 3 • ú	12.	1.4 . 6	18.1	8.7	27.8	1277	42.6	5.7	20	-3.3	1979
2	'•1	11.7	. 4 . 4	13.	e -	26.7	1978	41.0	5.5	7.7	-2	1976
3	2	11.3	64.6	18.1	8.5	29.4	1977	4	4.6	2.5	-3.3	1067
4	: 1	11.6	53.A	17.7	8 5	29.4	1977	42.	5.6	74	3	1945
5	. 4	11.9	64.3	17.3	8	26.7	1955	42.5	5 • €	1 :	-7.8	19=
6	•	10.3	60.4	15.9	86	28.9	1966	4" . 8	4.9	13	-1 .6	195
7	. 3	9.6	: 0 5	15.3	83	26.7	1966	39.1	3.0	12	-11.1	195
8		9.5	57.2	15.1	8.2	27.a	1977	38.9	3 . 9	24	-4.4	1972
9	46.	8.2	55.5	13.1	77	25.0	1970	35.1	3,4	<u>ם ה</u>	-6.7	1974
10	46.	9.3	5.5.6	13.1	76	24.4	1775	30.2	3.4	2.0	-6.7	1976
11	47.7	3.7	57.9	14.4	70	26.1	1949	37.5	*• 1	3.2	-5.6	1957
12	4 . 5	3.1	57.0	13.7	87	3 6	1073	36 • 1	2.3	1.4	-7.2	1952
13	کو روا	7.5	35.3	12.7	9	26.7	1949	35.7	2.1	12	-7.2	19/1
14	47.3	9.5	56.9	13.9	77	25.7	1975	37.6	₹.1	16	-8.9	1959
15	•	8 . 3	57.6	14.2	75	24.4	1943	36 . 3	2.4	10	-7.2	1951
16	4 . 6	8.7	5 4	14.7	84	28.9	1977	36.7	2.6	15	-9.4	1972
17	ij .	3.9	5 8	14.0	7.5	23.9	1946	57.2	2.5	1.3	-7.8	1979
18	1 7	9.3	5.0.3	15.2	81	27.2	1977	38.1	3.4	16	- 4.9	1964
19	- 4	7.1	57.0	15.7	7 .	23.0	197	37.7	1.2	17	-8.3	1945
20	_ • • <u>\$</u>	7.1	59.1	15.1	77	25.	1978	37.6	- • I		-5.6	1973~
21	.7.	3 . 8	50.9	15.5	8	26.7	1981	35.0	2.2	1 3	-7.8	1951
22	4 . 7	9.3	60.Z	15.7	8	25.7	197~	37.2	2.9	17	<u>~0.7</u>	1363
23	4 . 3	9.4	59.0	15.0	79	26.1	1974	38.9	3 • ਜ	11	-11.7	1943
24	7 . ls	3.6	ົ5.6	14.3	77	25.5	1977	36 . ?	2 • 3	1 4	-7.8	1961
25	46.	8.3	5 . 2	14.6	73	22.	1971	35.6	2.	76	-4.4	1361
26	46.4	8.3	57.7	14.4	74	23.3	1971	35.9	2.2		-5.6	197
27	41.6	9.2	59.1	15.1	80	26.7	1946	38.1	3 . 4	24	-4.4	1964
28	46.	a • 3	56.4	13.5	79	26.	1973	57.5	7.1	2.5	-3.9	1965
29	46.	8.3	56.4	13.6	7.5	25.6	1064	37.5	* . 1	1.5	-7.8	1946
30	4 - 1	7.8	55.4	13.	84	23.9	1071	36.0	2.7	1 4	-7.8	1944
31	14.5	6.9	3.6	12.	8 -	26.7	101	35.4	1.9	1 1	-10.6	1376
Monthly	5	9.2	58.9	14.0	87	3 . 6	1073	38.1	3.4	11	-11.7	1963

\*ALSO ON EARLIER YEARS

### **EXTREME VALUES**

ME THE METERST OF

FROM DAILY OBSERVATIONS

STATION

G.

STATION NAME

YEARS

A ES OFSPEES FINELIAFIE

MONTH	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	ост.	NOV.	DEC.	ALL MONTHS
4			7.5	3 4	r 3		٠,٥	17.7	- 9	: 4	77	7.	
	7.7	7.1	ĺ	9.5		₹7	1:17	104	-7	: 6	F :	1.	
. 7	7 5	3	^-7	2 د	3	73	17.4	17	172	- 4	7.3	7.	7 - 7 - 7
	7:		- 6	93	ુ હ	1 " +	1 1	1 ~	100	4.0		Y "	
		,			' <b>'</b>	1 .	172	175	53	4, 6	4.0	7.	
	э.	22	٠ و	7	-4	ာ့ခု	27	100	5.5	٧2	~7	71	1.27
1	7 :	73	7.7	0,7	. 7	37	1 2	1 ~ ~	15	, a	1.7	P 4	1.1
2	A 6	7 -	r g	£4	:8	: ~	1 7	1 ~ i	1'2	υĒ	<b>9</b> f,	77	• "
•	. 7	-,	0	£ 7	້ 5	17.	174	1 ~	1'4	<b>77</b>	75	• •	
4	7.5	- 7	74	3.0	- 4	100	111	10-	102	·. •.	7 %	70	111
۶,	73	7	7.5	? 7	24	3	172	174	7	43	7.7		
r	7.7		77.	3 %	7.6	192	107	177	103	6 <b>5</b>	4 ,	a (	. 7
	: ;	2 7	7 4	2.1	٠ <u>.</u>	f 3	1 ~ +	105	.0	41	77	7.7	1 1
	6	7-	-	J.	្រង	,	1 2	7.5	1.0	£ 12	7:	7.7	1 .
	7.4	^ 7	٦ ۾	9 🙃	^;	1 1	- 7	1 1	: \$	50	,	•	1
٠,	1.6	87	25	74	2.7	i 2	1.74	175	. 3	<b>4</b> ′	> Z	,.	1
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	9.4	•	93	C 4	. ^0	122	107	1	ંડ	8.9		7	
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	. 3	• -, -	2 1	9.7	,.,	1	1.5	127	7.9	7. 7	: ta	46	
	5	7 /	२.इ	7 7	6.2	^ <b>c</b>	1 4	1.76	25	69			1.1-
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77	1	a <u>g</u>	- 1	93	3	1 6	G <b>9</b>	1^:	ç	ع ۶	79	75	
	74	70	31	7.7	. 6	94	1.9	3.6	5.1	3		87	ं व
	0.		100	71	ာန	94	109	170	5.2	98		7,	
MEAN													
S.D.													
TOTAL OBS.					1								<b>†</b>

SMOS

### **EXTREME VALUES**

AT THE METERATION

FROM DAILY OBSERVATIONS

STATION

STATION NAME

YEARS

H L/ DEGREES FAHRE WETT

MONTH	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	ост.	NOV.	DEC	ALL MONTHS
	1	7	^ ₹	3 °		?	. 61	170	101	. 4	6.7	7:	
6	( )	2.6	16	8.3	£ 0	Ç.		171	-	-74		7 =	l l
7	7.7	Ξ,	7.7	2.5	. 5	171	7	1^.	174	, c	7 ).	<b>\$</b> (	1:1
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7.	7.1	7.	> 3	5,4	~ A	1	11.2	77	3.9	10:	,	7	1.1
	12.	<b>.</b>	3.8	9:	77	112	11	1 77	; 2	1			
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MEAN	• 7 .	77.8	F 4	20.3	~4.5	9	77.7	103.4	57.2	2.3	57.1	7.6	<del></del>
S.D.	4.5 5			4.31	2. 5	3.552	7.726			3.905			3.
TOTAL OBS.	111	1 16	111	1117	11:	11-0	1147	1175	11-	1173	117	1114	1 * 14

SMOS

#### **EXTREME VALUES**

IN THUM TEMPERATURE FROM DAILY OBSERVATIONS!

"ALLAS, TA

AH LE DEGREES FAHRENHEIT ABATED ON LEGS THAT FULL MONTHSA

MONTH	JAN,	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	ост.	NOV.	DEC.	ALL MONTHS
"4			- u							<b>,</b>			MEN ALISE
		٦, ۲,					<b></b>						PAY TOOP
		•							<u></u>				2145
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- 5					, î						<del>                                     </del>		PAT THE
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												14	DAYS
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													<del> </del>
MEAN										···			
S. D.													
TOTAL OBS.											<u> </u>		<u> </u>

SMOS

## **EXTREME VALUES**

STATHSH TEMPERATURE (FROM DAILY OBSERVATIONS)

STATION

STATION NAME

THE LE DEGREES FIMPENHELT

MONTH	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	ALL MONTHS
1,				36	46	40	+ 6	В.	51	3.7	77	17	
	2:	٠		4.3		7.3		65	56	£ "	? 2	1 5	i
4.	7	~1	22	37	46	馬龜	6.3	9.0	51	53	3.2	25	7
	1.				47	<u> </u>	5 A _	£ 3	49	3.2	2.5	24	
;		•	" Z	_	٥٥	66	70	2.3	G.	40	33	?6	
	1.9	*	2.5	3.5	56	61	67	<b>₹</b> *	<b>S</b> 7	47	18	1.	1
. ]	14	7.	~ a	39	6.3	62	6.9	71	7.1	4.2	2.2	1,2	
	26	•	30	73.3	46	67	٤ ع	7.2	59	36	70	2.5	
3		2 :	75	34	4.5	63	4.5	44	5.6	4 "	3.2	13	
- 4	15		7.4	36	, 0	54	75	68	5.2	50	3	? 3	? *
	2	: s	2.2	47	57	56	6.9	4, 4	5.1	37	3.5		
<u> </u>	. , ,	7 5	71	37	53	5.2	74	6.3	57	45	75	26	
	17	• •	` 7	3.2	46	6.5	76	60	5.5	31	33	72	, ,
	22		7.2	4 7	52	53	<u>, a</u>	£ 4	57	4 5	7.9	1.6	+ 5
	۰.	23	34	36	57	- 6 +	70	67	0.5	7	~:	26	4
	2:	17	2.7	4.2	44	66	7."	6.7	5.8	41	2.	∴2	: *
	12	? 🤈	7.9	4 `	5.1	۲.	6.8	5.2	5 <b>5</b>	- Š	₹5	10	1
	7	- 2	13	34	42	65	7.	6.5	* 9	4.1	7.7	1.7	7_
3	۹ [	11	7 1	47	13	6.8	72	6.7	5 Z	4 9	7	11	
<u>.</u>	10	7.5	3.0	37	51	54	59	7 /	5 ხ	39	7.	16	1.
· [	1 7	1 "	72	41	٠1	6.3	69	4.6	5,4	44	16	*2	17
6	المفي	21		36	48	5.4	7.7	6.2	56	36	•	1 9	
4 - 1	1	7.2	24	4.7	45	5.6	4.3	4.6	46	4.7	31	24	. 1
	1_1	24	25	36	49	7.7	154	£4	51	3.4	~7	15	1
· · · [	1 4	21	2.2	41	45	5 t	72	1.	58	7.0	ן פיר	20	<u> </u>
	15	71	2.0	37	46	5.4	44	<b>6</b> 6	5.3	3.7	7.2	2.2	1 5
!	15	ن .	1 0	3	f1 <b>20</b>	6.5	- 4	54	47	4.7	3.5	3.5	•
	14	20	31	41	5.4	5.7	1.2	4.6	45	4.5	3.3	15	14
	3	3.0	3 c	7.0	48	61	67	€4	۲, 4	38	3.5	2	
	- 15		20	37	S <b>5</b>	60	- 6 ¢	5.5	41	41			
MEAN													
\$. D.													
TOTAL OBS.	I												

**SMOS** 

#### **EXTREME VALUES**

STRENCH TOMPERATOR (FROM DAILY OBSERVATIONS)

25464.54.021

MILAS. TA

H LC DEGREES FAHREWHELT

MONTH	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	ALL MONTHS
	1 '	1 2	2*	12			57	8.5	49	43	2.3	10	
4	1:	₹4	36	41	49	61		5 .	. 4	16	1.5	13	
7	1 7	36	34	44	56	54	73	71	- 3	4,2	4.1	2.	1
7	1.	1	`2	43	46	6.2	74	69	63	43	7.3	7.3	10
7	11	1 .	2.5	42	45	5.8	71	4.3	5,7	r <b>4</b>	2.1	1.	: 1
	2"	2.3	17	36	50	69	72	7.2	57	31	3.	1	
:	2 •	1.7	4.1	43	-3	6.3	73	67	47	41	36	72	1 *
?	•	1	2.8	3 5	45	5.7	4.9	74	5.3	41	2.2	2.3	7
					-								
													_
MEAN	1 • 4	21.1	ींड∙ी	78.4	44.1	61.0	66.7	46.5	5.48	40.3	20.6	70.7	17.5
\$. D.	7.74		5.501		4.70 +			3.152				4.864	4.794
TOTAL OBS.	1114	1015	1116	1 187	1115	1147	1116	1178	1140	1173	1110	1116	13472

SMOS

#### **EXTREME VALUES**

TERM DAILY OBSERVATIONS

STATION

TALLAS . TX

YEARS

AN LE DEGREES FAHRENHEIT AFAIED ON LESS THAN FULL MONTHWA

MONTH	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	oct.	NOV.	DEC	ALL MONTHS
٠, ٠			* £		49								P
			"	4 ~	70		7.7	<b>-</b>	<del></del>	<b></b>			HIN TOUR
4, 1		21	12	<b>4</b> 29					1		,	I	
	23			41									IN IF
٠. د											*;		TA.
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·												1 -	Devi
		-											
		-											
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		_											
MEAN													
S. D.													1
TOTAL OBS.			<u> </u>										

**SMOS** 

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F79"1 CALLAS, TX FATION HARE 73-82 YEARS MORTH

PAGE 1

Temp.											SION (F)						TOTAL	<u>L</u>	TOTAL	
(F)	0	1 - 2	3 - 4	5 - 6	7 - 8	9 - 10	11 - 12	13 - 14	15 - 16	17 - 18	19 - 20	21 - 22	23 - 24 2	5 - 26 2	27 - 28 2	9 - 30 = 3	1 D.B./W.B	Dry Bulb	Wet Bulb	Dew Po
5/ 79						[		• 1				.3	•3				4			
181 77						}	. 1		<u> </u>	L		.0					5	5	<u>.</u>	<u> </u>
76/ 75					•0		.0	• 1		• 3	•0	.1	•0				9	9		
74/ 73		1	Ì	•0	.0		ĺ	ĺ	ł	0	.0		1	l	1	}	5	5	1	1
727 71		$\neg$		. 1		•2			. 1	• 1	•1	•0					14	14	J	1 -
75/ 69			• 1	. 2	.0		.1	. 1	. 2	. 1	. 5		- !	ĺ			23	23	i [	1
53/ 67		• 1	. 3	• Z	• 3	• 1	. 3	• 2	. 2	.1							42			
67 65	1	. 1	. 4	2	- 1	.1	. 2	. 2	1 .	.1	}	, ,	}	- 1	j		37	37	11	
4/ 63		. 2	. 3	. 2	• 2	• ?	.2	• 2	. 3								54	54	17	
2/ 61	_ • o	. 4	. 1	. 3	. 4	. 7	3		. 2	.1	. 7	( (		l		- }	63	63	32	:l
0/ 59	• 1	. 4	• 5	. 2	. 4			• 2		.0							64	64		
58/ 57	-	. 3	7	. 5	. 4	.6	3	3	. 2				1				83	6.3		
5/ 55		• 5	•6	. 5	• 2		. 3	. 4			<u> </u>						81			,
4/ 53	•0	, 9	. 6	. 8	. 4	- 5	. 4	. 1		}	)	] ]	1	]	)		97	1 -	1	1
2/ 51	- D	. 4	. 6	. 5	• 6		.5	. ?									87	+		
0/ 49	. 1	7		. 6	. 7	7	3	2		Į.	1		- 1	- 1	- 1	i	98	98		
1/47	. 1	1.2	. 8	1.2	• 6				-								123	123		_
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2/ 41	ī	1 - 1	1.3	1.7	. 8	-5	.1	ļ			}	} }	1	)	1		141	141	134	1
C/ 39	. 2	1.5	1.5	1.4	• 8	• 3	• 0	<b> </b>	$\vdash$	<del></del>	<b></b>						141	141		<del></del>
37 37	1.1	2.1	1.6	1.9	. 8	.1	•			(	[	1 1	- 1	[	ĺ	İ	189	189		,
36/ 35	. 2	1.5	1.2	1.0	• 6					<del> </del> -							114	114		
4/ 33	4	2.3	1.7	. 7	. 4	.1	ļ	]	j	1	1			ŀ	1		139			
2/ 31	.4	2.1	1.4	1.3	• 2	• 5		<u> </u>	<del>                                     </del>	<u> </u>	<del> </del>						134	134	<del></del>	<del></del>
7/ 29	3	1.8	1.4	1.1	• 2	•	{	ŀ	(	1	ł	1 1		1	1	İ	117	117	1 -	1 -
3/ 27	• 5	1.2	1.1	. 4	• 1			<b></b>	<del>                                     </del>	<del>                                     </del>	<del> </del>					$\neg \uparrow \neg$	82	<del></del>	+	<del></del>
6/ 25	. 1	1.2	1.2	. 3					ì	į	1	]			- 1	ĺ	70	1		-
4/23	• 1	1.2	1.1	• 2				i —						-+		_	65	<del></del>	<del></del>	+
2/ 21	i	.7	. 6	. 2		}	}		ļ	]	}	) )	}	j			38	36	1 11	1 :
10/ 19	. 2	,7	. 4	• 1				<del></del>	<b>-</b>	<del>                                     </del>	†				-+		34			
3/ 17	. 2	. 6	. 2	•		Ì	Ì	1	{		1	† {	1	-	}	}	26	_	l l	1 -
5/ 15	•1	. 4	• 1			h			<del> </del>	<del>                                     </del>	<del>                                     </del>	<del>                                     </del>					15		<del></del>	
4/ 13	i	. 2	. 2										1		İ	İ	11	11	17	
lement (X)	- 4	Σχ <sup>2</sup>			Σχ	<del>' T '</del>	¥	$\bar{\sigma}_{x}$	<del>'                                     </del>	No. O	ba.				Mean N	o. of Hours	with Temper	iture	<u> </u>	<del></del>
Rei, Hum.						_		<del></del>			<del></del>	≤0 F	= 3	2 F	≥67 F	≥73 (			F	Total
Dry Bulb						$\neg \uparrow$							<del>                                      </del>			1		1		
Wet Bulb						-		<del></del>					-+			<del></del>	+	+		

NAVWEASERVCOM

4

DALLAS. TK 73-82 PAGE ? WET BULB TEMPERATURE DEPRESSION (F) TOTAL TOTAL D.B./W.B. 1 - 2 | 3 - 4 | 5 - 6 | 7 - 8 | 9 - 10 | 11 - 12 | 13 - 14 | 15 - 16 | 17 - 18 | 19 - 20 | 21 - 22 | 23 - 24 | 25 - 26 | 27 - 28 | 29 - 30 | = 31 Wet Bulb Dew Point 127 11 11 72 4 9 3 E 17 41 3/- 9 -10/-11 5.225.622.918.2 9.8 7.4 4.0 2.6 1.6 1.1 .3 .3 .1 2480 2487 Element (X) No. Obs. 160462 64.7 20.26C 105011 42.3 13.146 92576 37.3 11.304 73930 29.8 13.442 ± 32 F ≥ 67 ₹ Rel. Hum. ≥73 F 2 80 F 11399852 2480

2480

2487

180.6 263.1

12.6 441.9

30.6

744.0

744.2

799.

Dry Bulb

Wet Bulb

4874933

1772570

STATION STATION HAME 73-82 FEB BOWTH

PAGE 1

																			•	HOURS	(LST)
Temp.	Ţ·						WET BUL	B TEMP	ERATURE	DEPRES	SION (F)							TOTAL		TOTAL	
(F)	0	1 - 2	3 - 4	5 - 6	7 - 8	9 - 10	11 - 12	13 - 14	15 - 16	17 - 18	19 - 20	21 - 22	23 - 24	25 - 26	27 - 28 29	- 30	≥31	D.S./W.S.	Dry Bulb	Wet Buib	Dew Paint
907 89																• 0	-	1	1		]
89/ 87		l								<u> </u>				• 2		l		1	1		İ
947 93												• 1	• 1	•0		7		6	6		
E37 81	1								.0	<u> </u>	. 1	.0	.0	.0				6	6		
937 79	}	]						• 0	•0	1	• 2	•2	.0	• 5				9	9	ı	]
73/ 77	<u> </u>					Ĺ	1	1	. 2	-1	2	۵۰	-1	-1				23	23		
76/ 75		} ,				• 3	- 1	. 1	. 2	1	- 1	•2	.0	•0	}	Ì		20	20	1	,
74/ 73		<u> </u>				1	. 4	3	- 2	2	.0	.2	.0					34	30		
727 71	İ				• 4	. 4	• 2	• 1	-1	. 3	• 1	• 0	•0	1	1	ļ		40	40		ł
73/ 69	<b></b>	<b> </b>		- 3	2		3	1	1 .2	2	3	1	.0		<u>_</u>			48	4.8		ļ. — —
65/ 67	}	)	• 2	. 4	• 3	• 2	• 3	• 1	. 3	• 2	• 1	- 1				ļ		46	46		
66/ 65	<u> </u>	<b></b>	- 8		3	_ 3	3	2	- 2		-1	L		<del> </del>				61	6.1	9	<del> </del>
14/ 63	}	- 1	• 6	. 6	. 4		. 4	. 6						) }	1			80	60	38	1
12/61	<b></b>	3	- 8		- 3	. A	.8	2	- 2				L					87	87	66	5
607 59		•4	• 7	• 2	. 7	•4	• 5	• 4		1		ł	Ì	1 1	1	1		86	86	61	3.8
58/ 57	٤•		- 6	. 6	- 5	6	-6	3	-1	-0		ļ	<b></b>			-+		8.8	8.8	81	45
56/ 55		• •	1.3	• 7	. 8		• 7	• 3	• 1	1		İ			]			109	109	73	1
54/ 53	1	8		- 6	• 5	- 94	- 4		<del></del>	<del> </del> -			<u>'</u>					90	90	97	54
\$27.51	• 0	1 (	1.1	• 5			• 4	• 1	1				}	] }	ļ			100	100	106	ł
50/ 49	• 5		1.0	- 6		- 6	• 3	•	<del>}</del>	<del> </del>		<b></b>	ļ	<del>                                     </del>	<del></del> -			125	97 125	132	70
44/ 47			1.1	1.2	1.6		• 1		1	1		i	Ì	1	ł	1		128	128	137	97
46/ 45			1.8	.9			• 7		<del> </del>	<del> </del> -	<u> </u>	<del></del>		<del>  </del>	<del></del>			111	111	129	
42/ 41	.6	1		2.2	7		• 3									- 1		129	129	159	92
40/ 39	•6	+	_		- 4				$\vdash$	<del> </del>				<del>                                     </del>		$\neg +$		128	128	158	112
30/ 37	. 2	ا نا		9	- 5	ľ						1	,	]	1	}		106	106	136	127
35/ 35	• !			. 0					$\vdash$	<del>                                     </del>		<b></b> -						121	121	155	138
34/ 33	. 3			. 8	_ 1	1 .					İ	İ		li	ı	ł		95	95	142	141
77/ 31	• 2	+	1.2	. 4														71	71	111	163
33/ 29	1	1.3	1.0	. 2														58	58	102	141
24/ 27	•0		.0	• 2	• 0					]		<u> </u>						53	53	72	126
76/ 25	1	1.1	• 6	. 1			L		L	L			L	<u> </u>				41	41	66	155
24/ 23		.5	• 5															22	22	36	102
22/ 21	1	. 6	د•							<u></u>		Ĺ		<u> </u>				16	16	32	91
Element (X)		Σχ2			Σχ		X	σx		No. Ol	18.					_		th Tempera			
Rel. Hum.	ļ					-			$\dashv$			± 0 F		32 F	≐67 F	<u> </u>	73 F	≥80 F	: 93		Total
Dry Bulb																+		<del> </del>			
Wet Bulb	ļ															<del> </del>		<del>  </del>	<del> </del>		
Dew Point	1			l		- 1	- 1		1		Į.		- 1	- 1		1		l .	1	i .	

GALLAS, TY PAGE 2

Temp.							WET BU	LB TEMPE	RATURE	DEPRES	SION (F	)						TOTAL		TOTAL	
(f)	0	1 - 2	3 - 4	5 - 6	7 - 8							21 - 22	23 - 24	25 - 26	27 - 28	29 - 34	) ≥31	D.B./W.B.	Dry Butb		Dew Pain
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Element (X)		Σχ²			Σχ		X	σ <sub>x</sub>	$\Box \Box$	No. O	bs.	Ĺ			Mean	No. of	Hours wi	th Tempera	ture		
Rei. Hum.		287	6139	1	42307	6	3.1	19.7	7.2	22	56	±0 F		≤ 32 F	≥ 67	F	≥73 F	≥80 F	≥ 93	F	Total
Dry Bulb			5460		08440			13.65		22			1	83.7	69	.7	29.8	5.0			672.
Wet Bulb			1928		94572			10.89			56			37.3							672.0
Dew Point			9588		77596			2.10		22				14.9							672.0

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79/ 77					. ?	-2		• 2	-1	•2	• 3	. 3	1	0			9.8	48		
76/ 75				•0	• 6	• 5	• 2	• 3	• 3	• 2	• 2	• 2	• 2				76	76	[	
74/ 73		0	0	- 5	•2	- 5	. 2	. 3	_ 3	. 3	2	-2	1		-		72	72	1	<u> </u>
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54/ 53	. 1	.7	1.2	1.4	1.5	8	• 4	1	• •						.		155	155	159	92
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42/ 41	• 0	. 5		. 8	. 2	• ^				L							59	59	118	146
40/ 39	• 1	. 3	• 7	. 3	• 1	•1											53	53	97	169
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Element (X)		$\Sigma \chi^2$			Σχ		<u>X</u>	σ <sub>X</sub>		No. Ob	6.						with Tempera		<u> </u>	
Rel. Hum.						-			$\rightarrow$			±0 F		32 F	≥67 F	273 F	≥ 80 F	± 93	F	Total
Dry Bulb									$\dashv$				$-\!$			<del></del>	<del> </del>	<del></del>		
Wet Bulb					<del></del>	$\dashv$										+				
Dew Point													Ļ				. i	<u> </u>		

93971 DALLAS, TX 73-82 MAR BYATION NAME YEARS BONTH

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26/ 27	• 7	.C	. 1		]					1		!		}	1		i	4	4	e	81
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TOTAL	7.6	15.9	19.4	17.4	12.5	11.5	8.3	5.7	4.3	2.6	2.0	1.4	. 9	• 3	-1			•	2480	<del></del>	2487
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Element (X)		$\Sigma_{\chi^2}$			ΣX		X	_ σ <sub>x</sub>		No. O								th Tempero			
Rei. Hum.			4378		5066			20.5		24		±01		= 32 F	≐67 F		≥73 F	≥80 F	: 93		Total
Dry Bulb		980	2936	1	4466	2 5	8.4	11.7	36	24	80			11.4	194.	9	87.0	21.	9	. 6	744.5
Wet Bulb		661	4985		2577		0.7	9.7	69	24	an.			24.9	34.	8	. 3				749.
Dew Point		478	2136	1	0683	2 4	3.1	12.3	A 1	24	R 7		1	55.7	_ 2.	آ آھ	. 3	i	1	1 -	744.0

DALLAS. TX

## **PSYCHROMETRIC SUMMARY**

Mean No. of Hours with Temperature

≥73 F

280 F

± 93 F

≤ 32 F

20 F

35

317

21

17

Total

PAGE 1 WET BULB TEMPERATURE DEPRESSION (F) TOTAL WET BULB TEMPERATURE DEPRESSION (F)

1 - 2 3 - 4 5 - 6 7 - 8 9 - 10 11 - 12 13 - 14 15 - 16 17 - 18 19 - 20 21 - 22 23 - 24 25 - 26 27 - 28 29 - 30 ≥ 31 D.B./W.B. Dry Bulb Wet Bulb Dew Point 527 91 • 0 3 • 1 937.89 • 0 • 0 68/ 87 8 R • 1 • 1 • G 56/ 85 •0 • 2 847 83 • 3 •9 40 • 2 • 0 40 • 1 50 50 F2/ 81 . 5 . 2 . 4 . 2 . 4 • 1 .0 . 3 80 89 75/ 77 125 125 76/ 75 140 • 3 . 2 74/ 73 164 164 1.5 72/ 71 56 . 1 2.5 . 4 • 1 192 192 70/ 69 197 197 106 2.5 67/ 67 1.2 202 76 1.1 202 194 169 169 203 117 66/ 65 . 4 64/ 63 • 2 1.1 1.2 216 164 1.4 • 9 . 4 • 5 • 0 161 161 62/ 61 140 .9 140 206 132 • 9 15/ 59 1.0 • 5 137 137 189 165 1.0 1.1 59/ 57 .7 1.2 113 113 190 150 56/ 55 120 183 • 7 1.2 • 3 120 155 1.1 54/ 53 176 74 74 1.0 527 51 . 7 127 • 1 • 5 1.0 • 5 • 1 . 2 81 1 9 146 56/ 49 147 60 60 126 45/ 47 32 32 121 148 . 3 24 23 23 45/ 45 122 44/ 43 53 • 3 • 2 • 2 • 2 106 13 42/ 41 . 2 13 41 112 40/ 39 . 1 0 9 ?7 107 • 1 • 1 30/ 37 20 9. 36/ 35 70 • 1 . i 4 10 34/ 33 52

No. Obs.

NAVWEASERVCOM

32/ 31

37/ 29

231 27

267 25

Element (X)

Rel. Hum.

Dry Bulb Wet Bulb Dew Paint .0

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## PSYCHROMETRIC SUMMARY

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Temp.				,	T			LB TEMPE						1				TOTAL		TOTAL	T
( <b>F</b> )	0	1 - 2	3 - 4	5 - 6	7 - 8	9 - 10	11 - 12	13 - 14	15 - 16	17 - 18	19 - 20	21 - 22	23 - 24	25 - 26	27 - 28	29 - 30	≥ 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point
24/ 23				ĺ	ì			<b>1</b> i												i I	13
72/ 21				L	L		ļ						 	<del> </del>						<b></b>	7
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13/17			<b> </b>	L	ļ	L				-			ļ							ļ	1
TOTAL	• 6	7.4	17.8	18.5	15.1	11.9	9.3	6.5	4.9	3.7	7.2	1.2	•6	• 1	. ?			!	2400		2400
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Element (X)		$\Sigma \chi^2$			Σχ	-	X	σ <sub>X</sub>		No. Ob	$\rightarrow$							h Tempera			
Rel. Hum.			7850		4536			18.4		24		± 0 F	-   -	132 F	≥ 67 F		73 F	≥80 F	: 93		Total
Dry Bulb			2631		<u>5 604</u>		5.9	9.5		24					370.			48.	3		720.0
Wet Suib			11649		3-15		7.6	9.7		24					111.		5.5		-		720.7
Dew Point		651	4322	1	2227	<u> 2   5</u>	4.3	0.89	98	24	00			4C-2	27.	لت			_L		720 <u>.0</u> .

WET BULB TEMPERATURE DEPRESSION (F) TOTAL TOTAL
D.B./W.B. Dry Bulb Wet Bulb Dew Po 1 - 2 3 - 4 5 - 6 7 - 8 9 - 10 11 - 12 13 - 14 15 - 16 17 - 18 19 - 20 21 - 22 23 - 24 25 - 26 27 - 28 29 - 30 = 31 33/ 97 1 1 26/ 95 • 1 • 0 • 1 54/ 93 ρ, 57/ 91 25 25 • 0 • 0 C1/ 89 51 51 • 1 • 1 18/ 87 33 . 6 • 1 • 0 -67 Bc 1.3 . 1 92 92 14/ 83 123 123 • 7 • 31 327 61 1. . 0 174 174 176 . 6 176 7 - 7 77 2.2 2.3 212, 1.4 • â . 4 . 4 . 2 212 24 76/ 75 216 93 216 227 2 = 74/ 73 1. 215 1.8 3.3 227 77/ 71 201 201 2.6 301 77/69 232 3.1 1.6 . u • 1 293 • ! 173 173 6=1 67 290 265 3.1 200 207 1.7 137 267 161 65 322 137 1.2 • 5 141 63 1.7 108 233 271 -21 51 . 8 217 • 6 • 5 / 49 57 1 57 47 107 134 • 8 . 6 501 55

4/ 53

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52/ 51

611 67 4:/ 45

447 43

42/ 41

3.1 37 367 35 34/ 73 Element (X)

Rel. Hum.

Dry Bulb Wet Bulb **Dew Point**  G.

STATION DALLAS, TX

≤ 32 F

σ×

7.8 85 75

87

49

31

193 21

26 26 69 28 28 43 4% 6 6

3 6

Mean No. of Hours with Temperature :73 F ≥80 F ≥93 F Total

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Rel. Hum.			4405		6456			15.5		247		: 0 F		32 F	267 F	273 F	≥80 F	±93 F		Total
Dry Bulb Wet Bulb			1971		8210		3 . 5	3.4		247 247						417.2	194	3.		744
Dew Point		1072	2103 5432		<u>62171</u> 50366		7.	7.9		247					158.8			4	+	744

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73+92
VEARS
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174/103														• 1	. 1			5	5		
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04/ 93								• :	. 4	1.4	1.3	. 3	0	• 1				89	89		}
57/ 91							• 2		2.4	2.0		. 2						141	141		1
237 80							• 3	2.0		.7		•2						152	152		
58/ 87						. 4	1.8	2.2	1.1	.6	5	.2			1			156	166		
267 85					• 1	2.1	2.9	1.7	1.1	• 5	• 2	• 1						200	200		
64/ 87		1		- 1	1.5	2.6	2.1	9		. 3	• ?	•1	)				Ì	198	198		1
427 81			• 1	. 7	2.5	2.5	1.3	. 4	.5		• 2							199	199	1	•
31 / 79			. 3	7.3	3.1	2.3	.6		. 2	• 2					]		i	227	229	25	:
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767 75	•	- 3	2.2			7	. 3				1						l	218	218	394	. 2
74/ 73	- <del></del>	. 3				,	• 3	<del>,</del>			<del>                                     </del>	-						155	155	491	+
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14/ 63	5		. 2		1 1			i		ĺ								17	17	104	2:
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Element (X)		$\Sigma_{X}^{2}$			Σχ		X	σ×		No. O	D8.				Mean 1	No. of t	lours wil	h Tempers	ture		
Rel. Hum.						_						5 O F		32 F	≥ 67 F	<u>'</u>	73 F	≥80 f	2 93	F	Total
Dry Bulb																					
Wet Bulb								<u> </u>			1										
Dew Point													T								

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STATION STATION NAME 73-82 JUST BONTH
PAGE 2

	,																				(LST)
Temp.										DEPRESS								TOTAL	<u></u>	TOTAL	
(F)	0	1 - 2		5 - 6	7 · 8	9 - 10	11 - 12	13 - 14	15 - 16	17 - 18	19 - 20	21 - 22	23 - 24	25 - 26	27 - 28 2	29 - 30	≥31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Poir
CIAL	. 4	7.1	10.9	15.3	14.7	13.0	11.2	R. 9	3.7	6.3	4.3	2.3	1.0	• 3	• 3	. 1	• 1	2400	2450	2400	2407
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Element (X)	<b>.</b>	Σχ²			$\sum_{\mathbf{X}}$	<u> </u>	X	σ <sub>z</sub>	1	No. Ob	. !	<u> </u>		L	Mean A	la. of 1	tours wit	th Tempera	ture		
Rel. Hum.	<del> </del>		3037	<del>-</del>	4 124	2 6		15.3	4.5	24		5 O F	- 1	32 F	≥67 F		73 F	280 F	≥ 93	F	Total
Dry Butb	<del> </del>	1135	242R	1	9533		1.4	8.	29	240			+-					405			720.
Wet Bulb			4113		7053		101	4 . 4		240					608.	7 3		3.			720.
Dew Point			6774		5 8 4 0		2.0	5.0		240					400		66.9				720.

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Temp.								LB TEMPL										TOTAL		TOTAL	
( <b>F</b> )	0	1 - 2	3 - 4	5 - 6	7 - 8	9 - 10	11 - 12	13 - 14	15 - 16	17 - 18	19 - 20	21 - 22	23 - 24	25 - 26	27 - 28	29 - 30	≥ 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point
110/104																	•0	1	1		
123/107												i	Ĺ			.0	-1		4		l
156/105															. 2	• 2	.2	13	13		
104/103														.6	. 4	_ • 2	2.	31	31		
17 2/101											]	.2	• 3	.8	. 3	. 2		0.0	44		
1507 88			<u></u> j								.1	3	2.1	.7	• 2			85	85		
SA/ 97					i					•0		1.5	1.3	. 4	• 2	• 0	• 10	99	99		
961 95								- 2		9	1.0	1.5	.6	.1				123	123		
947 93								• 3		2.2		.6		• 1	i			161	161		í I
727 91							.1		2.2	3.2	.7	2.2		<u> </u>				182	182		
2.7 89					1	• 0	•5	2.0	3.1	1.0	• 3	• 1	•0					176	178		1
73/ 87						.4	1.8	3.0	1.6	.6	• 1	L						187	187		
767 R5			• ≎		• 0	1 • 2	3.5	2.2	. 6	• 2		1	ł	ļ			İ	208	209		
F4/ 83		• .]		• 1	1.7	7.8	2.3	1.4	. 2	•0		<del>   </del>		L				211	211		L
927 <b>83</b>			• 7	• 5		2.4	1.9	• <del>6</del>	. 1		• ^							192	192	3	1
=13/ 79			• 5	1.4		2.4	1.0										<b> </b>	225	225	27	1
75/ 77		• 2	1.5		2.7		• 1	• -	• D									223	223	210	
76/ 75		• 5	2.3		1.5	- 4	• 1			·								183	163		17
747 73	• ?	. 8	1.6	1.0		•1					]							96	96		152
77/ 71		. 4		• 1	• C													26	26		317
707 69			• 2	1	ļ						j							6	6	293	473
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17/ 59								<b> </b>										ļ			56
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44/ 43																					
Element (X)		$\Sigma_{\mathbf{X}^2}$			ΣX	<del></del>	X	σx		No. Ot	<u> </u>	<u> </u>	·		Mean I	No. of F	lours wil	h Temperat	hure		
Rel. Hum.					<u> </u>	$\dashv$	<u> </u>		-+-		<del>-</del>	± 0 F	Τ":	32 F	≥ 67 7		73 F	±80 F	: 93	F	Total
Dry Bulb						$\dashv$					-+		-			+-		<del></del>	1-20	+	
Wet Bulb													-			+			+	+	<del> –</del> – –
Dew Point			-			+												<b></b>	+		
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97971 CALLAS, TX
STATION HABE

73-A2

VEARS

VEARS

PAGE 7

HOURS (LST.)

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Temp. (F)	0	1 - 2	2 4	8.4	7 +	0.1							22 24	25 24	27 - 28 2	20 20	> 21	TOTAL D.B./W.B.	Day Buth	TOTAL Wet Builb	Dam Bei-
TOTAL	• 5														1 . 3				2479		2479
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Element (X)		$\Sigma_{X}^{2}$			Σχ	<u> </u>	<u> </u>		'* T	No. O	<u> </u>		<u> </u>	<u> </u>	Mean &	No of	Hours w	ith Tempero	ture	<u> </u>	
Rel. Hum.			2258		<del>-x</del> 3952	<del>,</del>	6.3				79	±01		≤ 32 F	267 F		≥73 F	= 80 F	≥ 93	£	Total
Dry Bulb		1943			1289		5.9		947		77		_					554.			744.
Wet Bulb		1326			8121		73.1		765		70						47.2				744.
Dew Point		1121			6645		7.		766		79						73.8				744.

939-1 DALLAS TX 73-82 VEARS WEARS BOATH

																				HOURS	(L S T )
Temp.				,						DEPRES								TOTAL		TOTAL	
(F)	0	1 - 2	3 - 4	5 - 6	7 - 8	9 - 10	11 - 12	13 - 14	15 - 16	17 - 18	19 - 20	21 - 22	23 - 24	25 - 26	27 - 28		-	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Poir
104/103								'				1	1			• 2		4	4		1
102/101											.0	.0	-1	. 2	. 4	1	• C	22	22	L	
100/ 99										İ	i	.0	.4	. 4	. 4	.1		34	34		
97 97									. D	.0	.6	1.2	1.4	. 4	.2	<u> </u>	1	96	96		
96/ 95									•0	. 5	2.7	2.3	.6	.5	. 1		1	170	170		
94/ 93								. 1	. 9	1.9	1.9	. 7	•1				İ	1.77	137		!
927 91							• 1	. 6	1.8	2.6	1.0	. 6	• 1	• 1	0.0			170	170		
207 89				İ	L		. 4	1.6	2.3	1.7	.7	• 2	.1	• 1		1		174	174		L .
88/ 97				Į	• Ü	•2	2.0	2.2	1.5	.7	• 2	• 1					]	172	172		]
867 85					. 2	2.1	3.4	2.1	1.2	. 4	.2	.0	Ì	1	ĺ	İ	1	236	236		
F4/ 93				• 1	1.5	3.0	2.1	1.2	.6	.1	• 1	l .						214	214		
32/ 81				. 8	2.2		1.8		.1	.1	•0			j			į	211	211	2	
85/ 79			• 3	2.4	3.2	2.4	.7	. 4	• 1									233	233	13	
74/ 77		- 1	1.1	2.9		ł .	. 4	- 1	, n		}	)	}		ļ	ļ	;	213	213	132	]
76/ 75		• 1	1.4	3.5	1.5		. 4			i								193	193	487	16
741 73		- 5	1.5	1.5	. 8	3	0	i			ļ	l		ł	1	]		116	116	633	69
72/ 71		. 4	• 6	.6		•0								1		1		51	51	553	<del>,</del>
70/ 69		. 3		.2	.2	.1		1			l		ł	i				23	23		
53/ 67	• 7	• 0				• 7		<u> </u>					<del>                                     </del>	1	ļ —	1		6	6	170	
567 65	.0			1 .	1	-						!	ł			1		3	7	9.2	393
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5./ 59				İ	<b></b>						1			<b>†</b>		1	†			4	11
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50/ 49					İ			1		ŀ				i							9
43/ 47										†——		1				†	<b>†</b>	1			4
TOTAL	- 1	1.5	5.2	12.1	12.1	3 - 3	11.3	9.0	8.5	8.3	7.6	5.2	2.7	1.7	1.1	. 4			2480	1	2485
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Element (X)		$\Sigma_{\chi^2}$		<u> </u>	Σχ		<u>X</u>	σχ		No. Ot	$\overline{}$							th Tempera			
Rel. Hum.			4773		4032			15.9		24		± 0 F	-   -	32 F	≥ 67		=73 F	≥80 F	: 93		Total
Dry Bulb		1791		-	0991		4.6	7.6		24			<u> </u>					522.			744.5
Wet Bulb		1296			7914		2.2	3.2	23	24	80						80.1		2		749.0
Dew Point		1094	4702	1	6440	2 6	6.3	4.3	22	24	<b>6</b> ( )				404		57.4	<u> </u>			799.0

PAGE 1

																	,			HOURS	
Temp.						т		LB TEMP						, ,				TOTAL		TOTAL	·
(F)	0	1 - 2	3 - 4	5 · 6	7 - 8	9 - 10	11 - 12	13 - 14	15 - 16	17 - 18	19 - 20	21 - 22	23 - 24	_	27 - 28 2		≥31			Wet Bulb	Dew P
.02/101									[	[				• 0	ĺ	•0	(	2	2		
13/ 99						<u> </u>		<u> </u>		2.	.1	.0	.0	•2				10	10		
98/ 97					l			1	ł	• 0	• 2	.2	. 3	. 2	• 1	- 1	• 17	26	26		}
567 95						ļ	ļ		.0	-1	. 4	. 7	. 3	-1	-1			44	44		
94/ 93							1	)	. 2	• 5	1.2	. 4	. 3	. 1	• 0	j	į	65	65		
727 91								• 5	. 7	1.2		. 3	1					9.8	88		
957 89							. 4	. 5	1.0	1.0	. 5	• 3	• 0	.0	1			90	90	i	}
28/ 87						-2	. 9	1.1	1.2	_ 5	. 7	.2	.1					114	114		
-67 85					.7	• 0	1.2	1.3	1.2	. 6	. 4	•2	• 9		1	i	l	146	146	l	İ
E4/ 83					1.0	1.5	1.3	1.0	.7	. 4	.1	1	1	[]				153	153		
02/ 81			• €	• 3	1.1	2.2	1.4	• 9	. 8	• 2	•2	. 2	• 13		Į	- 1		176	176	î	1
80/ 79.		. 5	. 3	1.2		1.5	1.1	. 9		•2	1	. 3		il				177	177	. 3	· — -
70/ 77		- 1	1.2	2.1	2.2	1.4	. 9	. 5	. 3	•2	. 3			1		T	1	222	222	5 3	1
76/ 75		. 2	1.5	1.8	1.9	1.4	.7		-1	. 5	1			i				202	202	174	i •
74/ 73	• 1	. 7	2.0	2.2	1.2	1.2	.7	. 4	• 3	.2				1	1	,		214	214	323	
721 71	3	. 9	1.5	1.2	. 9	. 6	.4	4		-1							i	159	154	390	. 14
707 69	. 4	1.0	. 3	1.0	.7	.4	.4	. 4	. 2	l	!			Ī			'	129	129	332	29
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Rel. Hum.												±0 F		32 F	≥67 F	2	73 F	≥80 F	: 93	F	Total
Dry Bulb																				T	
Wet Bulb													Т								
Dew Paint																					

STATION STATION NAME 73-42 YEARS NORTH

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Rei. Hum.			6266	<del> </del>	4776	4			<u>. n</u>	24		2 O F		32 F	≥67 F		73 F	2 80 F	≥ 93	p 1	Total
Dry Bulb		1465	036	1	8608	7	7.5	9.6	27	24	20		_					301.2			720.0
Wet Bulb		1174		1	6235	9 6	7.5	6.4	55	24	22		$\neg$		464.	9 1	68.0	1.			720.0
Dew Point			5781		19858		1.9			24							42.3		-		720.0

NAVWEASERVCOM

4

Mean No. of Hours with Temperature

273 F

99

73

64

Total

≥93 F

PAGE 1 TOTAL TOTAL D.B./W.B. Dry Bulb Wet Bulb Dew Poin WET BULB TEMPERATURE DEPRESSION (F) 1 . 2 3 . 4 5 . 6 7 . 8 9 . 10 11 . 12 13 . 14 15 . 16 17 . 18 19 . 20 21 . 22 23 . 24 25 . 26 27 . 28 29 . 30 . 231 170/ 79 1 28/ 97 46/ 95 1 1 64/ 93 • 2 .7 97/ 91 • 1 • 1 •€ 16 16 . 1 • 1 3"/ 89 18 18 187 87 38 38 • 2 • 3 • 0 . 2 - 1 • 0 24/ A3 . 2 • 5 71 . 4 . 4 . 2 71 . 1 • 2 27.81 .2 91 91 91/ 791 .5 . 6 . 3 • 1 105 105 .0 . 4 7:1 77 157 157 . 6 75/ 75 • 5 • ? . 8 . 4 • 2 • 0 144 144 157 74/ 73 74 157 . 4 125 727 71 170 170 56 73/ 69 • 5 131 181 134 6 9 69/ 67 93 1.2 • 8 . 2. 158 158 174 • 3: 56/ 65 165 165 222 122 •1 44/ 63 1.3 195 1.1 •0 171 171 189 - 5 .6 62/ 61 .6 124 124 172 147 . 7 59 . 3 1.1 1.0 **a** 5 120 120 165 144 55/ 57 149 108 108 178 55/ 55 94 194 12? 14/ 53 190 74 74 . 6 136 527 51 . 4 64 64 138 115 c./ 49 54 54 131 138 • 5 • 2 43/ 47 • 1 • 3 . 5 40 40 72 145 42 46/ 45 42 81 127 44/ 43 21 . 2 21 69 126 42/ 41 48 11 11 116 40/ 39 32 • 0 6 6 124

No. Obs.

≤0 F

≤ 32 F

7

σx

73-82

VEASERVCOM

33/ 37

76/ 35

14/ 33

Element (X)

Rei. Hum.

Ory Bulb Wet Bulb Dew Point DALLAS, TY

YT 901 DALLAS, TX 73-92 CCT
STATION STATION NAME YEARS HONTH
PAGE 2

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Element (X)		Σχ²			Σχ	$\top$	<u>x</u>	$\sigma_{x}$	<u> </u>	No. C	bs.				Mean	No. of I	lours wi	th Tempera	ture		
Rel. Hum.		1094	0255		49931	6		19.8	4.2		80	± 0 F	:	5 32 F	≥ 67		273 F	≥80 F	≥ 93	F	Total
Dry Bulb		1168			67993			11.0			80				414	<del></del>		105.			744.7
Wet Bulb			9549		45715		8.8				80				162				-		744.0
Dew Point			3655		28575			11.3			80			35.7			15.3			-+-	744.D

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STATION	CALLAS . TX	73-82 YEARS	NO V
			PASE 1

																			HOUPS	
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731.77		<b></b> -			1	-2	2	- 2	3	1	-1	1					35	35.		
767 75		.0	• 3	• 1	• 5	• 5	• 2	• ?	. 2	• 2	i	• 3		i			5.5	5.5		
74/ 73		-2	2		3		5	. 2	- 2	-2		1	—— <u>і</u>		+		65	65	<u> </u>	1
72/ 71	• 7		. 4	. 8	5	.6	. 4	• 3	- 3		• 1			į		i	75	95	24	7
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06/ 65,	0	. 4	1.0	. 5	3	65	-4	5	. 3		1 -0	i			<u></u>		102	102	<u> </u>	. 42
£47 63	• 0		1.0	1.1	• ?	. 7	• 3	• 5	I.	.1			1		1	i	132	132	105	5.2
621 61:	• 2		. 5		• 6	- 5	•6	5	• 2	<u> </u>	<del></del>		‡-	<del>-</del>	- <del> i</del> -		138	138	115.	7 <u>7</u>
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Rel. Hum.									$\bot$			50 F	≤ 32	F	≥ 67 F	:73 F	≥ 80 F	: 93	<u> </u>	lotal
Dry Bulb																	<u> </u>			
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Dew Point						i			- 1		I			1		i	1	i	1	

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ım.		7759		1	5 3 5 3 9	6.4	.0	19.7	58	241		≤ 0 F		32 F	≥ 67 F		3 F	≥80 F	≥93		Total
Dry Bulb		7962			35256			11.A		241					158.			13.5	<u> </u>		720.1
Wet Bulb		6194			19293			D . 5		24				39.9	36,		1.5		<del></del>		720.
Dew Paint		4831	218		02482	<u> </u>	9	3.2	9.61	241	10			62.9	15.	3 📗	1.2		1 .		<u>720.0</u>

WEASEBUCOM

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56 / 57													<b></b> .						<del></del> +	~		<u>2'</u>
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141   141   122   147   12   148	4/ 53	• 1	• 6	• 5	• 7	• 9	• 3	.4	• 1	. 1									. 113.	113	76	. € . 5
4.7     4.5     1.1     1.9     1.6     1.3     2.7     2.2     1.0 <td>53/ 49.</td> <td>. 2</td> <td>• 5</td> <td>1.2</td> <td>. 9</td> <td>1.3</td> <td>1.1</td> <td>. 6</td> <td></td> <td></td> <td>•</td> <td></td> <td></td> <td></td> <td><u>.</u>. ,</td> <td></td> <td></td> <td></td> <td>141</td> <td>141</td> <td>122</td> <td>5</td>	53/ 49.	. 2	• 5	1.2	. 9	1.3	1.1	. 6			•				<u>.</u> . ,				141	141	122	5
2 / 41	4-/ 45	• ?	1.5	1.6	1.6	1.4	• <sup>(</sup> •	• 2	• 1		·				, ,		··			167		5 <u>ق</u> ــــ
153 153 253 1  20 / 37	44/ 43 42/ 41:		1.0	2.1 1.6	2.5	1.0														_	-	7 10
7.7 35	4:1 39	. 4	,	1	1.4	- 1	• 7				! !				•				153	153	233	1 3
7 / 31	7.,/ 35		1.5					•				<del>:</del>			• • • •				117	117	195	14
72 / 27	77/ 31		• 5		• 5	• 1					- · <del></del>	∔			· · ·	· · · · · · ·			15	5.5	109	18
19 19 66 12 24 23 00 02 05 01 27 21 00 05 01	7:/ 23 2:/ 27	3	.9	. 7	• 3	•1																18 15
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Temp. WET BULB TEMPERATURE DEPRESSION (F)

Total Total

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(F)		1 . 2	3 - 4	5 · 6	7 - 8	9 - 10	11 - 12	13 - 14	15 - 16	17 - 18	19 - 20	21 - 22	23 - 2	4 25 - 26	27 - 28 29	- 30 = 31	D.B. W.B.	Dry Bulb	<del></del>	+
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/- 7			L	<u></u>						L	<u> </u>	<u> </u>	!	· · · · · ·					<u> </u>	
771	7.6	14.1	24.5	20.2	13.8	<b>10.</b> €	5.9	3.5	2.3	1.4	. 7	. 4	•	2 .1	• 1			247R		247
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Element (X)		$\Sigma_{X}^{2}$	Ь		Σχ	$\vdash_{T}$	<del>▼</del>	σ <sub>x</sub>	╌	No. O	bs.	<del> </del>	Ь—		Mean No.	of Hours w	rith Tempera	sture		1
Rel. Hum.			7725		5086	A A		19.7	11		7 R	±01	. T	≤ 32 F	≥67 F	≥73 F	≥80 F		F	Total
Dry Bulb			1904		1968	2 4	9 3	11.	42		7.4			60.9	49.2					744.
Wet Bulb			8 336		0410	2 4	2 - 0	10.1	45		79		-+	123.4	4,2		+			744
Dew Point			6661		3381			12.4			78	Y		361.2	• 3	<del></del>	+	+		744
Daw roint		264	0001		1000	<u> </u>	305	11.607	70	- 4	• 5		e Li	20105		Щ.				1770

STATION		LAS		5	TATION NA	ME				73-	<b></b>			YE	ARS					AL	
																				HOURS	11.5
Temp. (F)	0	1 . 2	3 · 4	5 - 6	7 . 8					DEPRESS 17 · 18		21 - 22	23 - 24	25 - 26	27 - 28	29 - 30	2 31	TOTAL D.B. W.B.	Dry Bulb	TOTAL Wet Bulb	Dew F
7100			-										+			• '	• ¬	4	4		
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9/195		1								. !		-			• -	_ ^	• ^	16	16		
-/103		:					!	L		í 1			<u> </u>	- 2	ان	2		45	42		
2/171	]			Ì						į ;	• ^	• 3	• 7	• 1	. 1	•J.	• ೧	7 7	7.3		
2/ 79								<del></del> -		-2	- 2	1	.2	-1	1			150	150,		<b>.</b>
1 97	j	į		1				1	• 🤄	•B	• 1	• 3	• 3	• 1	• 7	• 0	• ~	249	249		
11 90	i								•0	•2.	. 5	- 4		1,				389			•
4/ 97			ŀ				: !	•	. 2	• 5	• 51	• 2	• 81	• 7:	•0			465	463		
_/ 91							7	- 2	<u> </u>	. 9	- 7		_ <u>•J</u> _	_ <del></del> _	+2.			626	625		•
198 /		:				• (7	• 2	• '		• 4	• 2	• 1	•0	• [	• 3	• 0		669	569		
n/ 87	+	+			• "			• 5	- 5	• 5	• 2			. ندف	• 17			772	<u> 773</u> 976		• -
5/ 45		1	•	-	• ni	• 7	1.1		. 4	? .	- 1	• 1	• ົ	•0	• ^			776	1^41		
<u>*/ 93  </u>						40	<b>ع</b>		نا	- **-	•.			<u>e</u>	عز			1041 1143	1143		+ -
2/ 91		1	•	• 4		1.7	٠٩	1 • 4	• 2	: • 1	• 1	• 1	• 1	•	• _			1323	1328	74	
19/ 77		العف	. 5	1 2	1 2		4			•		<del></del>			9	· · ·		1499	1498	<u></u>	
5/ 75		- 1	. A	1.2	1.1	. 6			. 2	• 2	. 1	• 1	• -	• •				1468	1468	1762	
4/ 72	• 0	3	- <del></del>	,	• 5.	-	3	7	. ?		. 1	.1	3	₹ 4.			•	1327	1327	2433	•
71		2'	- 3	1.6	! 5		. 3			2.	. 1	- 1	<b>.</b>					1170	1170	2435	11
1 63	• 1	. 3	1.7	. 7	• 5	• 1	. 3	. 2	• ?	. 1	. 1	<u>.</u>	• 3					1137	1137	1913	20
7 67	• 1	• 2	1.	5:	. 5	, ,	4	. 2	. 2		. 2 e .	• 0						1097	1:97	1573	. 23
6/ 65	• 1	. 3,	. 19		• 31	. 7	• 3	. 7	• 2	• 1	• ೧	• n.						995	775	1356	21.
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27 61	• 1	• 51	• 5	, r	• =	. 4	. 4	• ?	• 1	. 1	• 1	1						931	931	1164	14
/ 5.9	• 1	- 4	• 5	• ",	- 5	. 4	• 2	2.0	• 1	•0	<u>• C</u> ,							. 1902	<u> </u>	1073	. 13
5.7 57	• 1	• 3	• 5	٠٠			• 3	i .										867		1065	
5-/ 55		. 4	• 5	• 6		. 4	• 3			<u></u>								392	982	1024	
4/53	• 11	. 4	• 6	- 6		• 3						-		i				777	777	1041	8
2/ 51	• 1	• 4	. 7	<u>• 5</u>		- 4	• 2		• 7	<u> </u>								794	794	997	
3/ 49	• ]	- 41	• 6	. 4		• 3	• 1			1 1			·	ļ		. !		734	734	1931	, 7 9
17/47		3	• 5	<u>• 5</u>	. 5		-1	• :		<del>                                     </del>			·•					711	7:1	1003	<b>→</b> ·
45/ 45	• 1	• 5:	• 6		• 3	• ?	• 1				:							709   643		933 874	
lement (X)	• 1	Σχ <sup>2</sup>	• ′		$\Sigma_{X}$	<u> </u>	X	σ <sub>x</sub>		No. Ob	<del></del>				Mean	No. of H	ours wil	th Tempera		0,1	. 0
Rei. Hum.								<del> </del>				± 0 F	5 ;	32 F	≐ 67		73 F	±80 F	± 93	F	Total
Dry Bulb								<u> </u>	- †	-			- +	+				i		- †	
Wet Bulb											-		- †	;					<del></del>		
Dew Point								<del> </del>													

WEASERVCOM

																				MOURS	(L S T )
Temp.								LB TEMP										TOTAL		TOTAL	
(F)	0	1 - 2	3 - 4	5 - 6	7 - 8		11 - 12	13 - 14	15 - 16	17 - 18	19 - 20	21 - 22	23 - 24	25 - 26	27 - 28	29 - 30	≥ 31	D.B./W.B.	Dry Bulb	Wet Bulb	
-21 41	• 1	. 4	. 5	• 5	- ₹	• 1	• 3								_			575	575	872	855
437 39	• 1	. 4	• 6	- 5	• 2		• 3							ii				548	548	799	871
31 / 37	• 1	• 5	• €	. 4	. ?	• ^	• 3					1						511	511	694	904
36/ 35	• 1	. 4	_ • 5	. 3	.1									i				418	418	693	802
34/ 33	• 1	. 5	. 4	• 2	• 1							[						361	361	569	833
727.31	• 1	. 4	. 3	• 2						<u></u>				i				295	295	496	799
. 1 23	• 0	. 4	• 3		• 0													254	254	389	76
2-1 27	. 1	2 و	2	1	.0													183	183	292	631
267.75	• ≎	• 2	. 2	. 1														138	138	236	591
74/ 23	• ີ	. 2	. 2	•0	İ						i							115	115	157	446
72/ 21	• 0	. 1	• 1	• 0						1		]						63	63	128	374
21/ 12	ع.	1	1			L	L	L										44	44	104	325
15/ 17	• 0	. 1	• 3															33	33	5.3	233
16/ 15		. 1	<u>. 1</u>	L		L	ļ					l						24	24	38	221
14/ 13	• ?	. 0	• 0			{		(		l I		}	}	}		l j		15	15	50	160
17/ 11		0	. 3			L												6	6	17	147
10/ 9	• 0	• 0	• d			i	1			ŀ								4	4	6	
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CTSL	•	·*• /	16.00	10.0	1 101	1101	8.7	0.7	3.4	4.0	2.4	1.4	102	•6	• 3	• 1	•1	29212	29212	29212	26515
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																			<u> </u>	L	<u> </u>
Element (X)		Σχ2			Σχ		<u> </u>	σ <sub>X</sub>		No. Ot								th Tempero	<del>-,</del>		
Rel. Hum.		2765			9655			18.6		292		±0 F		32 F	≥67		73 F	≥80 F	: 93	<del></del>	Total
Dry Bulb		3634			<u> 2562</u>		5.9			292								2175.			760.
Wet Bulb		3248			7530		7.3			292					3227						760.0
Dew Point		8 35C4	4143	14	8410	7   5	0.8	16.6	56	292	12	16	. R E S	12.5		-2127	75.7	1	5	1 8	760.0

## **MEANS AND STANDARD DEVIATIONS**

DRY-BULB TEMPERATURES DEG F FROM HOURLY OBSERVATIONS

73-82

STATION			\$1	TATION HAME						YEARS				
HRS.(L.S.T.)		JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	ANNUAL
	MEAN	39 . a	45.0	55.2	62.2	69.6	77.2	81.7	80.7	73.9	63.7		45.5	62.4
	S. D.	11.348	11.673	9.832	7.845	6.766	5.140	4.145	4.032	7.331	9.134	10.330	10.182	16.372
	TOTAL OBS	310												3651
	MEAN	38.0	42.7	52.4	59.7	47.1	74.4	79.7	77.8	71.3	61.4	51.2	43.2	59.9
	S. D.												10.321	16.182
	TOTAL OBS	315					300		310					3652
	MEAN		41.0		58.0		73.0	76.8	75.6		59.5		1	58.7
7.	S. D.	11.727	11.397	10.522	8.872	7.147	4.625	2.648	3.323	7.170	9.568			16.150
	TOTAL OBS	310	252	310	300	310	300	310	313	300	310	300	313	3652
	MEAN	36.6	44.3	55.4	64.4	72.9	80.7	85.4	87.4	76.3	66.2	53.9	44.7	64.7
1:	S. D.			10.036										17.771
	TOTAL OBS		282											3651
		ļ										ļ	<b></b>	
	MEAN	46.5		63.1		78.7		92.6		1			53.6	71.5
1.	\$. D.												11.188	17.925
	TOTAL OBS	310	282	313	300	315	300	310	310	300	310	300	310	3652
	MEAN	50.4	56.8	66.8	73.9	81.4	89.9	94.7	93.7	86.3	77.4	65.1	57.5	74.6
1	S. D.												11.920	17.602
	TOTAL OBS	310												3652
	MEAN	46.5	53.6	64.5	71.8	79.2	87.8	91.9	90.7	82.6	72.4	59.8	52.1	71.2
1 .	S. D.			10.509										17.722
•	TOTAL OBS	310												3651
	MEAN	42.5	48.3			72.9		85.2				55.6	48.0	65.6
~:	S. D.	11.598	11.793	9.531	7.475								9.951	16.585
	TOTAL OBS	310	282	310	300	310	300	310	310	300	310	300	309	3651
	MEAN	42.3	48.1	58.4	65.9	73.5	81.4	85.9	84.6	77.5	67.7	56.4	48.3	65.9
ALL HOURS	S. D.												11.742	17.950
HOURS	TOTAL OBS	2410	2254	2980	2400	28.79	2400	2479	2483	2400	2480	2400	2474	29212

## MEANS AND STANDARD DEVIATIONS

WET-FULB TEMPERATURES DEG F FROM HOURLY COSERVATIONS

79-1 DALLAS, Tr. 73-82

STATION				TATION NAME						YEARS			_	
HRS.(L.S.T.)		JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	ANNUAL
	MEAN	36.7	40.3	49.3	55.9	54.0	69.5	71.9	71.0	66.2	57.1	49.4	40.6	55.9
	S. D.										8.809	10.346	9.907	14.67
	TOTAL OBS	310												365
	MEAN	34.7	39.1	47.9	54.6	67.5	68.6	70.9	70.1	65.3	55.9	47.1	39.2	54.1
٦٠	S. D.	11.037	10.764	10.074	8.449	6.723	4.411	2.142	2.965	6.582	9.333	10.673	10.261	14.9
	TOTAL OBS	310	282	310	300	31	300	310	310	300	310	300	310	36
		ļ		<del> </del>					ļ			<b></b> _		
	MEAN	33.5	37.8			62.0	68.4	70.5		64.6	55.3		38.3	53.
	S. D.												10.554	15.5
	TOTAL OBS	310	282	310	330	310		310	310	303	313	300	310	36
	MEAN	7.		40.3		1.5 3		77.0	77.0	4.4.7		99.0	40.4	57.
	S. D.		47.1					73.9						1
	TOTAL OBS	310											9.891	
		310	232	31.1	3111	31.4	700			300	310	200	319	- 35
	MEAN	30.0	44.6	53.0	60.0	67.7	73.1	75.2	74.4	70.1	61.7	52.6	45.0	50.
1 .	S. D.												9.647	14.4
	TOTAL OBS	310												36
	MEAN	41.7	46.4	54.4	61.1	68.4	73.6	75.1	74.3	70.1	62.3	53.6	46.6	60.
1 1	S. D.	11.170	10.483	8.781	7.449	6.082	3.769	2.158					9.316	
	TOTAL OBS	310	262	310	300	310	300	310	310	300	310	300	310	369
				<u> </u>										
	MEAN S. D.			53.4				74.4				51.3		59.
1 '	TOTAL OBS												9.096	
	TOTALOBS	310	292	310	300		300	5113	310	300	310	300	300	36
	MEAN	37.7	42.4	51.2	67.3	65.8	73 - 0	12.9	72.1	67.1	58.5	49.5	42.7	57.0
	S. D.												9.429	
• 1	TOTAL OBS	310					300		310					36
414	MEAN	37.3						73.1		67.5	58.8	49.7	42.	57.
ALL HOURS	S. D.	11.385								6.456	8.935	10.561	10.146	14.80
	TOTAL OBS	2450	2256	2487	24.00	2479	2400	2979	2480	2500	2480	2400	2478	2921

#### MEANS AND STANDARD DEVIATIONS

DEW-POINT TEMPERATURES DEG F FROM HOURLY OBSERVATIONS

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STATION HRS.(L.S.T.) FEB. MAR. APR. MAY JUN. JUL. AUG. SEP. OCT. NOV. ANNUAL 61.7 51.7 47.0 33.4 MEAN 29.7 34.3 43.2 50.6 60.4 65.5 67.2 66.1 7.59810.88112.93012.765 4.149 13.23711.86412.24810.331 7.350 4.860 3.392 16.427 TOTAL OBS 282 310 310 309 310 300 310 300 310 3651 310 300 370 MEAN 67.0 61.7 | 51.5 | 42.5 | 33.2 57.6 65.6 13.346|2.318|2.375|10.369| 7.557| 5.048| 3.220| 4.174| 7.646|11.210| 3.009|2.988 16.649 TOTAL OBS 330 300 310 300 282 300 310 310 310 3652 42.6 40.9 59.6 66.0 67.3 66.5 61.6 51.1 42.0 32.9 50.2 28.4 33.1 S. D. 13.575||2.272||2.565||0.543||7.733|4.726||3.191||4.002||7.839||1.335||3.116||2.929 16.966 TOTAL OBS 300 300 310 310 310 232 310 310 300 310 310 300 3652 61.3 MEAN 63.4 53.1 43.8 43.8 51.3 66.9 69.7 68.1 S. D. 13.67512.49111.91710.862 7.853 7.47811.02212.82712.618 16.893 4.875 3.286 3.626 **TOTAL OBS** 310 292 310 300 \_\_**3**n9i 300 310 300 310 3651 310 300 310 30.6 35.2 43.4 51.4 61.3 66.5 67.5 66.9 62.8 52.2 43.3 34.6 13.56612.37612.33911.319 8.316 5.271 3.871 4.287 8.25411.94713.74613.176 30.6 35.2 43.4 51.4 61.3 62.8 52.2 43.3 34.6 51.4 S. D. 1 ~ 16.776 TOTAL OBS 300 310 300 310 310 282 310 300 310 310 310 300 30.3 34.7 42.8 51.6 61.2 65.9 66.1 65.3 61.5 51.3 42.6 33.6 5. D 13.585|11.956|2.492|1.432| 8.372| 5.476| 4.576| 4.687| 8.103|11.917|4.020|13.112 1 TOTAL OBS 282 315 339 310 300 310 310 300 310 300 310 MEAN 6 . 8 20.0 34.4 42.6 51.1 66.2 65.1 61.0 51.6 42.7 33.8 65.5 4.159 4.771 8.03511.57513.51413.158 S. D. 8 . 339 5 . 532 13.54611.95113.06111.575 16.604 TOTAL OBS 310 \_\_\_\_00 310 300 310 300 3651 310 300 313 61.6 52.2 43.2 34.1 MEAN 38.4 35.1 43.6 51.5 67.1 66.2 61.0 66.0 S. D. 13.078 11.639 2.101 40.684 7.520 4.753 3.633 4.081 7.461 40.616 2.824 2.544 2.1 16.248 TOTAL OBS 300 310 300 309 313 282 313 300 310 300 310 310 3651 61.9 51.8 42.9 33.4 43.1 50.9 60.7 66.0 67.1 66.3 50. R ALL S. D. 13.44212.10912.38210.899 7.905 5.088 3.767 4.322 7.83011.32113.24612.097 16.657 HOURS 2400 2480 2400 2478 243D 2256 2450 240D 24 79 2430 2479 2480

#### **RELATIVE HUMIDITY**

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# CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

MONTH	HOURS			PERCENTA	GE FREQUENC	Y OF RELATIVE	HUMIDITY GR	EATER THAN			MEAN TELATIVE	TOTAL NO. OF
MONTH	(L.S.T.)	10%	20%	30%	40%	50%	60%	70%	80%	90%	HUMIDITY	OBS.
، د ۵ در	] <b>n</b>	100.0	100.0	99.7	94.5	34.8	67.1	50.0	25.4	4.7	69.0	310
	13.3	100.0	100.0	99.7	76.8	88.7	75.5	58.4	35.5	11.3	72.1	310
	19.6	107.0	106.3	99.4	97.4	97.5	79.3	59.4	38.7	15.2	73.9	310
	្រូក	100.0	100.0	100.0	97.4	89.7	73.5	55.2	39.4	17.4	72.8	 31:1
	1.7	100.0	150.0	91.3	76.5	53.9	47.6	29.0	23.0	4.2	57.6	310
	15	100.0	26.1	80.0	58.7	44.2	33.2	23.7	17.1	5.2	50.9	310
	1.4	100.0	≎8.7	89.0	71.5	57.4	41.3	26.1	14.7	5.5	56.6	317
	.71	107.0	79.7	98.7	91.0	77.4	58.7	38.7	74.8	6.8	64.8	310
						-		ļ ———				-
101	TALS	100.0	29.3	94.6	95.4	73.7	58.6	42.5	27.8	9.4	64.7	2480

## RELATIVE HUMIDITY

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# CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

GE FREQUEN		OF RELATIVE	HUMIDITY GR	EATER THAN			MEAN RELATIVE	TOTAL NO. OF
10%		50%	60%	70%	80%	90%	HUMIDITY	O85.
≎6.6		85.1	63.1	46.5	20.6	K . 4	67.9	2 4 2
67.9		92.7	80.1	59.9	33.0	8 • 7	73.6	2 A 2
78 • 2		93.6	81.6	66.7	41.5	9.6	74.9	292
95.7		85.1	69.1	55.3	29.4	12.1	70.4	242
72.3		56.4	38.3	22.3	15.2	5.7	55.2	732
59.9	1	42.5	28.0	19.5	10.3	3.5	48.7	282
71.3		52.5	30.5	20.9	10.3	2.8	52.3	2 4 2
89.7		77.7	53.2	34.4	17.0	3.5	62.6	282
	_							2256
		5 • 2	5.2 77.2	5.2 77.2 56.1	5.2 77.2 56.1 40.7	5.2 77.2 56.1 40.7 22.2	5.2 77.2 56.1 40.7 22.2 6.5	5.2 77.2 56.1 40.7 22.2 6.5 63.1

## RELATIVE HUMIDITY

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STATION STATION NAME

# CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

MONTH	HOURS			PERCENTA	GE FREQUENC	Y OF RELATIVE	HUMIDITY GR	EATER THAN		· ·	MEAN	TOTAL NO. OF
MONIA	(L.S.7.)	10%	20%	30%	40%	50%	60%	70%	80%	90%	HUMIDITY	OBS
24P	r (f	100.0	99.7	98.7	73.9	78.1	63.9	43.2	21.6	6.1	66.2	310
	51.3	100.0	99.7	99.7	96.8	88.4	73.2	55.5	31.3	0.4	71.0	310
i	26	100.0	100.0	99.7	78.7	93.9	82.3	62.6	39.0	10.6	74 . 4	316
	34	100.0	100.0	99.4	94.5	31.6	62.6	45.5	22.9	7.1	67.0	310
	1.2	99.7	97.4	83.2	69.0	50.6	32.7	20.3	9.7	3.9	52.2	310
	3.7	100.0	92.6	72.6	53.7	37.4	24.2	13.2	6.5	2.3	46.0	310
	1/4	100.0	02.3	79.7	61.3	45.8	28.7	17.1	10.3	2.9	49.2	310
	3.1	100.0	29.7	94.5	64.2	67.1	50.6	29.4	15.5	7.5	63.0	310
		ļ										
											<u> </u>	
TO1	TALS	100.7	77.7	90.4	91.5	67.9	52.3	35.9	10.6	5.8	60.8	2430

#### **RELATIVE HUMIDITY**

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# CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

MONTH	HOURS			PERCENTA	GE FREQUENC	Y OF RELATIVE	HUMIDITY GR	EATER THAN			MEAN RELATIVE	TOTAL NO. OF
MUNIH	(L.S.T.)	10%	20%	30%	40%	50%	60%	70%	80%	90%	HUMIDITY	OBS.
: <b>0</b> 0	D, <b>C</b>	100.0	ם.מר ו	99.7	97.3	36.7	67.7	46.3	50.0	3 • C	67.3	300
	37	100.7	106.0	130.0	29.3	93.3	70.7	58.3	79.3	4.7	72.0	370
	C ·	107.0	100.0	100.0	69.7	95.7	85.0	71.3	38.0	5.3	75.5	300
	٦	100.1	79.7	98.3	91.7	76.7	64.3	42.7	18.9	2.3	64.6	370
	1.7	130.0	98.3	87.7	70.3	53.7	35.0	18.7	6.3	1.0	52.8	3 ים
	1-	100.0	75.7	82.3	63.7	45.3	25.7	13.3	4.3	1.3	48.8	300
	1.7	99.7	97.5	86.7	67.7	49.7	31.0	18.0	6.3	2.0	51.3	300
	71	100.5	99.7	97.7	89.5	74.3	53.3	35.3	14.3	1.7	62.3	300
					-				<del> </del>			, 
			ļ									
TO	TALS	100.0	04.3	94.0	34.3	71.9	55.3	37.9	17.0	7.6	61.8	. 2400

### RELATIVE HUMIDITY

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STATION

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# CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

MONTH	HOURS			PERCENT	AGE FREQUENC	Y OF RELATIVE	HUMIDITY GR	EATER THAN			MEAN RELATIVE	TOTAL NO OF
MONTH	(L.S.T.)	10%	20%	30%	40%	50%	60%	70%	80%	90%	HUMIDITY	OBS
% <u>K</u> ¥	5	100.0	100.0	100.9	100.0	98.1	89.7	63.2	27.1	1.9	75.3	310
	÷.	130.0	100.0	160.0	100.0	99.7	95.2	81.5	47.3	2.6	77.5	310
	Ç:	100.0	100.0	100.0	100.0	99.7	97.1	58.7	59.4	9.7	81.0	317
	0,9	100.0	100.0	99.7	98.4	90.6	75.4	43.0	12.9	1.0	67.9	374
	1 ~	100.0	99.7	97.4	88.7	70.9	35+2	15 · A	5.2	.6	56.8	310
	15	100.0	79.7	94.5	01.0	48.1	25.8	11.6	4.5	1 • C	52.1	310
	1 0	120.0	39.7	95.5	P5.5	63.5	32.9	14.5	5.5	1.9	55.3	310
	2.1	100.7	100.0	100.0	98.7	92.9	73.9	37.4	14.5	1.3	67.3	310
101	ALS	100.3	99.9	78.4	-4.0	s2.7	65.7	44.4	21.2	2.6	66.4	247

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### **RELATIVE HUMIDITY**

# CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

MONTH	HOURS		PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN							MEAN - RELATIVE	TOTAL NO OF	
MONTH	(L.S.T.)	10%	20%	30%	40%	50%	60%	70%	80%	90%	HUMIDITY	OBS
j\$1.9 <sub>6</sub>	120	100.0	100.0	100.0	110.0	95.7	75.7	40.7	12.7	1.7	68.0	310
	٦,٣	100.0	100.0	100.0	120.6	100.5	93.0	69.0	25.7	1.7	74.5	310
	34	100.0	100.0	100.0	100.0	100.0	99.3	0.88	44.3	5•₽	79.1	300
	69	100.0	100.0	100.0	29.3	88.3	65.0	23.0	7.0	. 7	53.6	סרצ
	12	100.0	100.0	99.0	R3.7	52.0	20.0	6.7	2.0	• 3	51.6	320
	) <del>-</del>	100.0	99.7	95.0	67.7	31.0	11.3	4.3	2.3	• 3	46.7	300
	12	100.0	79.7	95.7	75.7	38.3	16.D	7.7	1.3	• 3	49.2	טרצ
	?1	100.0	170.0	109.0	98.3	82.	49.3	20.7	6.7	.3	61.3	300
												· · · · · · · · · · · · · · · · · · ·
						1				 	<u>†</u>	
701	ALS	160.0	99.9	98.7	90.6	73.5	53.7	32.5	12.8	1.3	61.8	2470

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# RELATIVE HUMIDITY

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STATION

STATION NAME

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

MONTH	HOURS		PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN										
MUNIA	(L.S.T.)	10%	20%	30%	40%	50%	60%	70%	80%	90%	RELATIVE	NO. OF OB\$.	
JUL	, 0	100.0	136.0	100.0	*8.7	91.2	51.8	23.7	10.4	1.6	62.6	309	
	•	100.7	100.0	100.0	1 70.0	26.1	70.3	45.2	13.9	1.6	58.2	313	
	u.K	100.0	100.0	100.0	170.0	98.7	89.7	60.0	27.7	2.6	73.2	310	
	.j.¢	100.5	150.0	99.7	96.5	75.9	41.07	15.2	4.5	• 5	58.6	310	
	17	105.3	39.7	92.9	62.5	28.7	3.3	2 • ¢	1.9	• 6	45.2	310	
	15	170.0	99.0	78.4	45.2	19.4	7.7	5 • 2	1.0	1.3	41.2	310	
	17	109.0	99.7	89.5	54.2	23.9	13.9	9.0	4.5	•6	45.0	310	
	-1	105.0	100.0	100.0	92.6	58.4	35.2	14.9	6.5	1.3	56.2	310	
											<u> </u>		
TO	TALS	100.0	99.8	95.7	31.2	50.2	39.8	22.0	8.9	1.3	56.3	2479	

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### **RELATIVE HUMIDITY**

STATION	STATION NAME	PERIOD	MONTH
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# CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

MONTH	HOURS			PERCENT	AGE FREQUENC	Y OF RELATIVE	HUMIDITY GR	EATER THAN			MEAN RELATIVE	TOTAL NO. OF
MONIH	(L.S.T.)	10%	20%	30%	40%	50%	60%	70%	80%	90%	HUMIDITY	OBS.
ΔUE	חו	100.0	130.5	100.0	76.0	83.7	55.5	23.2	5.1	1.3	62.1	310
	ñ :	100.0	120.0	120.0	59.4	93.5	75.6	47.4	11.5	.3	66.2	310
	76	100.0	130.0	100.0	100.0	37.4	89.4	69.3	24.5	1.6	73.9	310
	6.7	193.0	100.0	100.0	76.9	96.0	51.3	15.2	4.5	1.9	60.9	31:
	1 `	100.0	170.0	94.3	67.4	29.7	10.3	4.4	2.3	.6	46.7	310
	15	137.0	79.4	84.8	43.5	12.2	6.8	2.6	1.0	.6	40.7	310
	13	190.0	09.7	91.7	56.5	23.7	12.6	4.5	1.3	• 3	44.4	310
	7.1	100.0	100.5	39.4	92.3	66.4	31.9	9.4	2.6	••	55+8	310
						ļ						· · · · · · · · · · · · · · · · · · ·
TO	TALS	100.0	19.9	96.3	21.6	61.5	41.7	22.7	6.7	. •	56.6	2480

# RELATIVE HUMIDITY

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# CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

MONTH	HOURS			PERCENT	AGE FREQUEN	CY OF RELATIVE	HUMIDITY GR	EATER THAN			MEAN - RELATIVE	TOTAL NO OF OBS
MONTH	(L.S.T.)	10%	20%	30%	40%	50%	60%	70%	80%	90%	HUMIDITY	
٤٥	. •	133.0	11100	100.0	18.3	18.7	64.3	42.7	20.0	2.3	67.4	300
	. •	100.0	100.0	100.5	1.39.8	95.7	79.7	57."	79.3	ი,7	72.8	300
		197.7	170.0	100.0	100.0	130.0	¢=.3	69.7	10.7	15.3	76.7	* 10
		100.0	100.0	100.0	98 <b>.</b> 7	85.7	62.7	34.3	16.7	4.3	65.7	300
	1 `	100.0	100.0	95.7	73.7	46.3	24.3	13.7	9.7	7.3	51.6	570
	1 ~	130.2	29.7	64.3	53.7	31.7	19.3	10.7	5.3	1.3	46.1	 57:
-	1-	160.0	130.8	92.3	70.3	40.7	26.3	13.3	7.0	7.7	57.5	200
	7.1	100.0	100.0	100.0	14.3	73.7	45.3	25 .11	13.7	3.7	61.4	300
								1		+	<del></del>	
							<u> </u>					
101	ALS	120.0	100.0	96.5	A6.1	70.7	61.4	33.1	17.4	5.6	61.6	<b></b>

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CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

MONTH	HOURS			PERCENTA	GE FREQUENC	Y OF RELATIVE	HUMIDITY GR	EATER THAN			MEAN - RELATIVE	TOTAL NO OF
MONIH	(L.S.T.)	10%	20%	30%	40%	50%	60%	70%	80%	90%	HUMIDITY	OBS
7	<b>n</b>	100.0	100.0	99.7	04.5	84.9	é" • b	43.2	25.2	5.2	€6+8	310
	. •	100.0	175.0	100.0	·B • 4	89.7	76.5	51.3	29.4	11.0	71.5	113
	, ·	100.0	100.0	100.0	29.4	94.3	34.2	64.9	32.9	14.9	75.0	31
	D.¥	100.0	180.5	99.4	73.2	77.7	57.1	36 . 1	17.7	6.4	54.7	517
-	1.7	113.5	76.1	82.6	62.6	41.0	25.0	13.9	7.7	2.6	48.9	31
	1.	100.0	72.3	74.2	48 . 4	31.6	17.4	11.0	5.5	1.0	43.0	710
	;	103.9	98.7	87.1	£7.4	44.7	70.0	17.7	7.7	, 1.3	51.1	310
	? 1	179.0	100.0	39.4	20.0	72.0	50.3	22.0	15.5	2.6	51 • a	311
			<u> </u>							+	•	<del></del>
								<u> </u>			<del></del>	· · · · · · · · · · · · · · · · · · ·
										<del>!</del>		
701	ALS	100.0	08.4	92.8	1.2	57.1	50.5	33.0	17.7	5.7	6.4•5	248

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NAVAL WEATHER SERVICE DETACHMENT ASHEVILLE, NORTH CAROLINA

# RELATIVE HUMIDITY

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STATION

STATION NAME

# CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

MONTH	HOURS			PERCENTA	GE FREQUENC	Y OF RELATIVE	HUMIDITY GR	EATER THAN			MEAN	TOTAL NO. OF
MONTH	(L.S.T.)	10%	20%	30%	40%	50%	60%	70%	80%	90%	HUMIDITY	OBS.
NC.	٠,٠	100.0	100.0	99.7	₹6.7	85.0	70.3	51.7	24.0	A • 3	69.3	300
	דמ	100.0	100.0	79.3	97.3	92.0	78.7	64.0	33.7	17.3	73.6	300
	95	100.0	100.0	49.7	78.3	94.7	83.7	70.3	40.0	16.0	76 - 1	300
	3	100.3	99.7	98.3	97.0	88.0	71.0	52.3	23.7	8.7	70.4	300
	1 ?	100.0	9•n	90.3	67.7	49.0	36.3	24.0	11.0	3.0	53.5	300
	15	100.0	96.3	77.7	53.7	40.0	25.3	18.0	6.7	2.3	47.8	300
	17	100.9	29.3	92.7	74.7	58.7	47.0	23.7	11.0	4.0	56.1	300
	2.1	107.0	100.0	99.7	93.3	78.5	60.7	36.3	19.0	4.7	65.0	300
					-		ļ					i I
101	TALS	100.0	39.3	94.7	8.03	73.7	54.5	42.5	21.8	7.5	64.0	2400

# RELATIVE HUMIDITY

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STATION

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HONTH

# CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

MONTH	HOURS			PERCENTA	GE FREQUENC	Y OF RELATIVE	HUMIDITY GR	EATER THAN			MEAN RELATIVE	TOTAL NO. OF
MONIN	(L.S.T.)	10%	20%	30%	40%	50%	60%	70%	80%	90%	HUMIDITY	OBS
GF C	٥	100.0	100.0	98.4	93.2	79.7	52.6	43.2	19.0	5.5	65.7	310
	٥×	100.0	39.7	98.7	95.5	86.8	70.3	51.3	29.0	3.1	69.5	310
	36	100.0	100.0	99.0	07.1	91.3	77.7	58.4	29.0	10.0	71.9	310
	្នះ	100.0	100.0	98.4	95.8	83.2	68.1	50.0	26.1	9.1	68.9	310
	1.7	100.0	07.4	85.5	69.4	50.6	30.6	19.0	8.7	1.5	51.9	310
	1:	190.9	91.9	70.3	54 • 5	34.2	22.3	14.2	7.4	1.6	45.2	310
	1 ^	100.0	96.8	89.0	71.8	49.9	33.0	19.7	9.4	2.6	53.0	319
	21	100.0	99.4	96.8	19.6	69.3	50.8	30.1	13.6	2.6	61.0	30.9
								-	-			
TOI	ALS	107.5	98.2	92.0	03.4	68.1	51.9	35.7	17.8	5.0	60.9	2478

# RELATIVE HUMIDITY

STREET SALLAS, TO

73-42

ALL

STATION

STATION NAME

PERIOD

# CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

MONTH	HOURS			PERCENTA	GE FREQUENC	Y OF RELATIVE	HUMIDITY GR	EATER THAN		-	MEAN	TOTAL NO. OF
MUNIN	(L.S.T.)	10%	20%	30%	40%	50%	60%	70%	80%	90%	HUMIDITY	OBS.
24%	ALL	100.0	99.3	94.6	25.4	73.7	58.6	42.5	27.8	9.4	64.7	2420
rep		100.0	08.1	93.1	95.2	73.2	56.1	40.7	22.2	6.5	63.1	2256
H 42		100.0	77.7	90.9	#1.5	67.7	52.3	35.9	19.6	5.8	66.B	24 40
4 20	_	100.0	78.8	94.3	14.8	71.9	55.3	37.9	17.0	2.6	61.8	2400
		100.0	09.9	98.4	04.0	82.7	65.7	44.4	21.2	2.6	66.4	2479
11:14		100.0	07.9	98.7	00.6	73.4	53.7	32.5	12.5	1.3	61.8	2400
JUL		130.0	99.8	95.0	A1.2	60.2	39.8	22.0	8.9	1.3	56.3	2479
A1+G		100.0	^9.9	96.3	61.6	61.9	41.7	22.0	6.7	. 9	96.6	2450
ţ.tr		100.0	100.0	96.5	56.1	70.2	51.4	*3.1	17.4	5.8	61.6	2470
:CT		100.0	98.4	92.8	P1.8	67.1	50.5	33.9	17.7	5.7	60.5	2480
พอง		100.0	59.3	94.7	R4.9	73.7	50.3	42.5	21.5	7.5	64.0	2400
ひてに		100.0	98.2	92.0	83.4	68.1	51.9	35.7	17.8	4.0	60.9	2478
<b>TO</b> 1	TALS	100.0	99.1	94.8	45.0	70.7	52.9	35.3	17.6	4.5	61.5	29212

PERCENTAGE FREQUENCY OF AIR TEMPERATURE VS. WIND DIRECTION

		5-TAT134-4A	• (				· FAR			MONTH	
					VIND DIRE	CTION					
TEMP.	NNW 8 N	NNE 8 NE	ENE & t	ESE & SE	55E & 5	w22 w2.8	wsw & w	WNW BNW	CALM	TOTAL FREQ.	°c OF
122 ·	1									17.0	
117 10 121					+						
112 10 116			+								
107 TC 111		+									
102 10 106	<del></del>		+								
97 TO 101							t				
42 .0 49											
87 70 91									<del></del>		
82 TO 86											
77 10 61					77.8	22.2			1	2	. 4
72 10 76	5.0			i	60.0	15.0	10.0	5.0	5.0	5.0	• 5
67 10 71		1.4	4.1	5 . 5	57.5	16.4	6.6	2.7	5.5	73	2.9
62 10 66	7.4	3.3	1.6	6 . 6	41.8	15.6	8.2	5.7	9.8	122	4,9
57 TO 61	8.4	3.9	1.1	9.5	41.3	17.3	6.1	3.4	8.9	179	7.2
52 10 56	13.2	5.9	3.7	7.3	35.2	11.0	3.7	8.7	11.4	219	8.8
47 10 51	20.6	6.4	1.9	8 . 6	25.8	8.6	5 . 6	12.0	10.5	767	10.6
42 TO 46	23.0	6.2	3.8	8.6	22.1	6.8	4.4	9.7	15.3	339	13.7
37 10 41	20.7	6.5	10.1	7.3	14.6	8.1	5.3	11.6	15.9	397	16.7
32 10 36	27.0	16.8	7.5	5.7	7.8	6.3	.9	11.4	16.5	333	13.4
27 10 31	39.5	10.3	9.1	4 . 7	6.7	5.1	1.2	11.9	11.5	253	17.2
22 10 26	54 . Z	3.9	2.0		10.5	3.9	1.3	15.7	8.5	153	6.2
1/ 10 21	57.5	8 . 8	1.3	1.3	5.0	2.5	2.5	12.5	8.5	8.0	3.2
12 10 16	27.6	3.4		3.4		17.2		41.4	6.9	29	1 • 2
7 10 11	56.7				-=			16.7	16.7	6	• 2
2 10 6					170.0					1	
-3 TO 1		<del>-</del>									
-810-4							+				
.13 *3 9	<u></u>	- · <del>i</del>							<u> </u>		
- 18 "J14		· <del>-</del>									
23 10 19	+									<del> </del>	
~ 28 TO - 24		——··· —	÷	*	- +		·+				
~33 f⊙ ~29	<del></del>				+		<del>-</del>				<del></del>
-38 TO-34 -43 TO-39					+						
48 10-44		<del></del>		+		+				<del></del>	
-10 TO - 44			+		·						
18 10 - 54		+									
25 6 1 1/19											
TOTALS	24.2	7.5	5.0	6.4	21.3	8.7	3.9	10.5	12.4	2480	100.0

WIND DIRECTION

JANUARY 1973-DECEMBER 1982

	NNW	NNE	E'+E	ES!	551	ssw	wsw	WNW	Ī	TOTAL	° OF
TEMP.	8 N	& NE		8 5t	8.5	& 5W	8 W	& NW	CALM	FREQ.	TOTAL
122 -											
117 TO 121											
112 10 116			1								
107 10 111											
102 10 106										l	
97 TO 101											
92 10 %											
87 10 91						100.0				י	•
82 TO 86					14.3	14.3	71.4			7	•
77 TO 81			5.4	2.7	45.9	29.7	8.1	2.7	5.4	37	1.
72 10 76	1.4		1.4	4 . 2	55.6	19.4	6.9	5 • 6	5.6	7.2	3.
67 10 71	1.7		. 9	4.3	63.8	15.5	7.6	4.3	1.7	116	5.
62 10 66	7.3	2.8	3.9	7.3	53.6	11.2	6.1	5.7	2.8	179	7.
57 TO 51	10.8	5.4	1.3	2.1	45.3	9.4	6.3	5.4	8.1	223	9.
52 FC 56	14.3	2.5	5.3	8.2	34.4	11.5	6.1	10.2	7.4	244	10.
47 10 51	16.6	4.9	7.6	10.5	21.3	10.1	6.5	14.1	9.4	277	12.
42 10 46	22.7	6.5	6.9	12.0	15.8	7.2	3.1	17.5	9.2	291	12.
27.75.41	23.8	9.6	4.2	7.7	17.4	7.1	2.9	15.4	11.9	311	13.
32 75 36 1	31.5	10.6	5.1	7.5	10.6	8.3	3.1	12.2	11.0	254	11.
27 10 21	42.4	5.6	7.6	4.2	3.5	12.5	1.4	13.2	9.7	144	6.
22 10 %	46.7	10.7	1.3	5.3	1.3	2.7	1.3	17.3	13.3	75	3.
1 10 4 1	71.4					7.1		7.1	14.3	14	•
12 10 16	44.4							33.3	22.2	9	•
/ 10 11									100.0	1	•
2106											
-1 TO 1		1									
810-4									1		
10 70 . 9 .											
- 18 T.) - 4		†									
23 10 - 19		•								1	
-28 TO -24 (		· <b>-</b> · · · · · · · · · · · · · · · · · · ·	·								
-33 13-29											
- 38 TO = 34											
43 10 39											
1- 7 3 14											
-1 to 4+p			+	+		<del></del> +	· <del>-</del> †			<del></del>	
28 13 . 54		<del></del>									
76 A				+			<del></del>				
TOTALS	27.0	5.6	4.7	7.6	26.8	10.1	4.8	11.6	8.6	2256	100.

WIND DIRECTION

JANUARY 1973-DICEMBER 1982

WIND	DIRECTION

				٧	IND DIRE	CTION					
TEMP.	NNW & N	NNE & NE	ENE & t	ESE & SE	55E & 5	\$\$W & \$W	wsw & w	WNW 8 NW	CALM	TOTAL FREQ.	TOTAL
122 -	1										
117 10 121	<b></b>					$\overline{}$		- 1			
112 TO 116											
107 10 111											
102 TO 106											
97 10 101											
92 TO 96					130.0					3	• 1
87 10 91					75.0		25.0			ų,	• 2
82 TC 36	9.0			4.0	60.0	12.0	12.0	4.0		25	1.0
77 TO 81	3.6	. 9	2.7	4.5	56.8	15.3	11.7	2.7	1.8	111	4.5
72 TO 76	5 . 6	• 5	2.6	8.2	57.1	12.8	7.7	4 - 1	1.5	196	7.9
67 10 71	5.2	1.0	4.2	13.9	53.5	10.0	5.5	5.2	1.6	317	12.5
62 TO 66	7.6	4.2	7,9	14.7	43.7	8.1	4 . 2	5.0	4.7	382	15.4
57 10 61	15.9	5.8	7.9	14.6	29.4	8.7	5.3	6.3	6.1	379	15.2
52 10 56	16.8	6.7	7.7	14.4	21.4	9.3	4.9	15.1	6.7	388	15.6
47 10 51	22.9	8.1	10.6	10.6	11.6	8.5	3.9	13.4	10.6	284	11.5
42 10 46	31.3	13.5	13.5	1.6	5.2	7.3	4 . 2	9.9	13.5	192	7.7
37 TO 41	32.5	5.1	7.3	2.4	5.1	8.9	1.6	14.6	16.3	123	5.0
32 TC 36	46.3	1.9			7.4	7.4	1.9	16.7	18.5	54	2.2
27 TC 31	57.1	9.5			9.5		4.8	9.5	9.5	21	. 8
22 10 26	100.0									8	• 3
1. 10.21	100.0									?	• 1
1213 16											
7 10 11				· · · · · · · · · · · · · · · · · · ·							
2 10 6											
3 10 1	ļ. —————	<del> </del>	∔								
<u>8 ₹-5 - 4</u>				‡							
13 5.5 . 4											
16 13 -14											
23 13 19	<del>-</del>			+	+						
25 10 24							+	`-			
- 33 10 - 29											
38 10 - 34											
43 10 39	i										———
46 10 44	·										
	<del> </del>	÷									
15 13 14	<b> </b>				+						
TOTALS	16.4	5.3	7.1	10.8	31.5	9.2	5.1	7.9	6.7	2880	100.0
	1017	J - J		* ~ 4 .9	3203	704	3 7 4	7 9 7		E 4 4 0	***

WIND DIRECTION

JANUARY 1973-DECEMBER 1982

127 - 127 - 117 127 117 127 117 127 117 127 117 127 117 127 12	7.7 2.4 3.3 7.0 7.5 16.5	1.2 1.7 2.5 3.4	7.7 3.6 .8	7 . 7 8 . 3 14 . 1 18 . 5	130.0 46.2 65.5 57.3	55 w & 5 w 15 4	wsw & w	**************************************	CALM	TOTAL FREQ.	TOTAL
117 70 121 112 TO 116 107 TO 111 102 TO 106 97 TO 107 92 TO 96 87 TO 91 82 TO 86	2.4 3.3 7.0 7.5 16.5	1.7 2.5 3.4	3.6	8.3	46.2 65.5			15.4			
112 TO 116 107 TO 111 102 TO 106 97 TO 107 92 TO 96 87 TO 91 82 TO 86	2.4 3.3 7.0 7.5 16.5	1.7 2.5 3.4	3.6	8.3	46.2 65.5			15.4			
107 TO 111 102 TO 106 97 TO 101 92 TO 96 87 TO 91 82 TO 86	2.4 3.3 7.0 7.5 16.5	1.7 2.5 3.4	3.6	8.3	46.2 65.5			15.4			
102 TO 106 97 TO 101 92 TO 96 87 TO 91 82 TO 86	2.4 3.3 7.0 7.5 16.5	1.7 2.5 3.4	3.6	8.3	46.2 65.5			15.4			
97 TO 101 92 TO 96 87 TO 91 82 TO 86	2.4 3.3 7.0 7.5 16.5	1.7 2.5 3.4	3.6	8.3	46.2 65.5			15.4			
92 TO 96 87 TO 91 82 TO 86	2.4 3.3 7.0 7.5 16.5	1.7 2.5 3.4	3.6	8.3	46.2 65.5			15.4			
87 TO 91 82 TO 86	2.4 3.3 7.0 7.5 16.5	1.7 2.5 3.4	3.6	8.3	46.2 65.5			15.4			
B2 TO 86	2.4 3.3 7.0 7.5 16.5	1.7 2.5 3.4	3.6	8.3	65.5			15.4		15	
	3.3 7.0 7.5 16.5	1.7 2.5 3.4	2.3	14.1		7.1					• • • •
77 10 81	7.5 7.5	2.5	2.3		57.2		7.1	4 . 8		84	3.5
	7.5 16.5	3.4		10 6	2192	8.7	5.0	5.0	4.1	241	10.0
72 10 76	16.5			1000	53.9	7.8	2.3	3.3	2.5	799	16.6
67 10 71			7.3	15.7	46.6	5.8	2.6	6.3	4.8	496	23.7
62 10 66	10.7	7.6	9.4	18.3	27.2	6.6	.8	6.6	6.9	393	16.4
57 TO 61	400	10.7	7.6	12.2	19.6	8.3	2.4	8.0	12.5	327	13.6
52 TO 56	19.5	8.2	13.0	8.2	11.3	8.2	3.5	11.3	16.9	231	9.6
47 10 51	19.1	2.9	10.3	5.9	5.1	14.0	8.1	20.6	14.0	136	5.7
42 TO 46	23.6	10.9		9.1	7.3	9.1	7.3	23.6	9.1	55	2.3
37 10 41	17.6					17.6	5.9	47.1	11.8	17	.7
32 TO 36	16.7				16.7		33.3	33.3		6	• 3
27 10 31		i						100.0		1	• 0
22 10 26											
12 10 21											
12 10 16		_									
7 10 11						I					
2 10 6											
-3 TO 1											
8 TO4											
-13 10 - 9											
- 18 10 - 14	l								i		
-23 TO-19											
~28 TO-24											
-33 TO - 29											
-38 TO-34	T								I		
-43 TO -39		I	1								
48 TO - 44			I					]			
- 53 10 - 47			I	i				I			
58 TO 54	I					I					
- 50 & LWR					$\Box$						
TOTALS	12.0	5.3	6.5	14.1	35.6	7.8	3.2	8.0	7.4	24 0	100.0

WIND DIRECTION

JANUARY 1973-DECEMBER 1982

				W	IND DIRE	CTION					
TEMP.	NNW & N	NNE & NE	ENE & E	ESE & SE	\$5 f	55W & 5W	wsw a w	www 4 NW	CALM	TOTAL	OF TOTAL
122 -											
117 TO 121											
112 10 116											
107 10 111											
102 10 106											
97 10 101				100.0			+			:	٠,
92 10 90	4.8		4.8	14.3	71.4	4.8				21	
87 10 91	1.4	1.4	3.4	17.6	64.9	6.8	2 . 0	2.0	. 7	145	6.0
82 to 56	3.9	3.3	4.9	16.3	56.2	4.9	3.6	2.3	4.6	306	12.3
77 TO 81	6.8	4.2	5.9	21.4	46,8	3.8	1.9	2.5	4.5	471	19.0
72 10 76	7.7	4.2	7.7	16.6	47.9	5.9	2.2	2.6	5.2	543	21.9
67 10 71	11.6	8.2	8.2	14.8	28.7	7.6	2.1	6.3	12.2	474	• • •
02 TO 66	16.5	6.3	8.8	12.3	16.5	8.1	3.2	11.2	17.2	285	-
57 10 61	28.4	7.8	7.1	5.7	8.5	7.1	1.4	17.7	16.3	141	- 1
52 TC 56	31.7	8.3	3.3		3.3	10.0	17.0	20.0	13.3	60	2.4
47 TO 51	3.0	4.0			8.0	12.0	15.0	28.0	24.0	25	1.0
42 10 45	25.0								75.0	4	• 2
37 TO 41							I				
32 TO 36					i		· · · · · · · · · · · · · · · · · · ·	]			
27 10 31				<u> </u>	<u> </u>		I	I	Ī	I	
22 10 26				<u> </u>			I				
1 10 2				<u> </u>				1			
12 10 16						i.	·				}
7 to 11							i	4	<u> </u>		
2 10 6								i		i	
-1 10 1											
- 8 TO - 4											
13 10 - 9											
- 18 TD-14											
23 TO = 19		·									
-28 10 -24											
-33 10-29											
-38 10-34											
43 70 39											
- 48 10 - 44											
-53 10-42											
-58 70 - 54				i			I			I	
- 57 A LW9											
TOTALS	10.2	5.2	6.7	15.5	39.2	6.2	2.7	5.7	8.5	2479	100.0

WIND DIRECTION

MALLAS, TX

G.

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JANUARY 1973-DECEMBER 1982

	NN W	NNE	ENE	ESE W	SSE	ssw	wsw	www		TOTAL	, OF
TEMP.	8 N	& NE	8 F	8 2E	<b>2</b> 2	8 SW	8 W	& NW	CALM	FREQ.	TOTAL
122 -											
117 TC 121											
112 10 116											
107 10 111					50.0	50.0				4	• 2
102 TO 106					58.3	16.7	16.7		8.3	17	• 5
97 TO 101	4.3		2.2	15.2	58.7	8.7	8.7		2.2	46	1.9
92 10 96	1.0	1.0	. 5	7.6	77.6	8.1	2.9	1.0	. 5	210	5.8
87 TO 91	2.8	2.1	6.5	11.1	66.1	6.7	1.0	1.C	2.5	386	16.1
82 10 86	4.5	5.1	7.3	15.5	54.6	9.0	,4	1.4	2.2	491	20.5
77 TO 81	6.0	4.3	7.8	14.0	52.0	8.7	.7	1.4	5 . C	563	23.5
72 10 76	7 . 8	8.5	10.6	17.5	32.8	9.4	1.4	2.8	9.2	424	17.7
67 10 71	17.9	7.0	12.4	11.4	17.4	8.5	3.0	6.0	16.4	201	8.4
62 TO 66	22.2	7.4	1.9	9.3	7.4	13.G	5 . 6	5.6	27.8	54	2.3
57 10 61	55.6					22.2			22.2	9	. 4
52 70 56											
47 10 51											
42 10 46											
27 10 41											
32 TO 6											
27 10 31											
22 10 26					l.						
17 10 21											
1210 16											
7 10 11											
2 10 6											
-3 TO 1											
810-4											
-13 10 9											
- 18 TJ ~- 14											
- 23 FO - 19											
-28 10-24											
-33 10-29											
-38 10-34											
-43 10-39			<u>-</u>								
48 10-44	l				!						
- 53 TO - 44 j											
-58 TO-54											
-50 8 LWR	1		ĺ	1		I	1	1			

vs. WIND DIRECTION

CALLAS, TX

JANUARY 1973-DECEMBER 1982 JULY

		STATION NA	WI.				YEARS			MONTH	
				W	IND DIRE	CTION					
TEMP.	NNW	NNE	ENE	£2£	322	ssw	wsw	www	CALM	TOTAL	*, OF
	8 N	& NE	8 5	& SE	4.5	8 SW	8 W	8 NW		FREQ.	TOTAL
122 -											
117 10 121											
112 10 116											
107 TO 111			40.0		20.0		20.0		20.0	<u> </u>	•
102 TO 106			11.3	17.7	54.8	6.5	3.2		6.5	6.2	2.
97 10 101	2.4	3.8	7.1	23.3	50.5	5.7	1.0	1.0	5.2	210	8.
92 10 %	2.1	3.4	7.3	17.1	53.3	8.7	2.6	1.8	3.7	381	15.
87 10 91	3.1	3.6	7.3	21.1	42.7	11.1	4.4	2.4	4.2	450	18.
82 TO 86	2.3	2.3	6.8	16.0	50.6	14.8	1.0	• 6	5.6	514	50.
77 TO 81	3.1	3.1	7.0	9.7	43.1	19.3	. 9	1.7	12.1	545	22.
72 10 76	4.3	4.7	6.7	13.4	25.1	22.7	1.7	2.3	19.1	290	12.
67 TO 71	7.7	7.7	7.7			53.8			23.1	13	•
62 10 66											
57 10 61											
52 TO 56									L		
47 TO 51											
42 10 46											
37 10 41											
32 10 36		i		i							
27 10 31											
22 10 26											
17 0 21											
12 TO 16											
2 TO 11											
2 10 6					_						
-3 TO 3											
- 610-4											
-13 10 - 9				i							
- 18 10 14											
- 23 10 - 19											
-28 10 -24											
-33 10-29			Ţ								
-38 10 -34											
-43 TO-39											
- 48 TO - 44											
- 53 to ~ 49					I						
~58 to -54											
- 59 8 LWR											
TOTALS	2.8	7 7	9.3	16.0	44 4	8 4 8	2.0	1.4	8.5	34 70	100.

NAVWEASERVCOM

FTATION

WIND DIRECTION

229 1 PALLAS, TX

STATION SAUL

 $\exists \mathbb{C}$ 

JANUARY 1973-DECEMBER 1982

AUGUST HO No 1151.

WIND DIRECTION 55 W TOTAL **∂**F TOTAL & NE & SE 8 SW & NW FREQ. 122 -117 10 121 112 TO 116 107 10 111 15.4 30.8 38.5 7.7 13 102 TO 106 58.7 395 5.8 19.6 97 10 101 7.7 6.3 4.2 3.5 7.6 3.3 15.9 92 10 96 1.5 21.8 6.1 .5 4.3 10.7 25.0 36.4 8.9 1.4 1.2 5.6 428 17.3 87 10 91 6.1 20.5 555 22.4 9.4 1.3 3.8 3.8 43.1 11.2 1.3 5.8 82 TO 86 552 22.3 7.4 . 9 5.4 4.3 41.3 13.6 1.8 10.5 77 10 81 6.9 4.5 9.6 13.1 26.9 14.6 1.5 21.8 335 1.2 72 10 76 3.7 11.1 14.8 9.3 1.9 7.4 33.3 54 2.2 11.1 67 10 71 40.0 20.0 .0.0 • 2 62 10 66 57 10 61 52 10 56 47 10 51 42 10 46 37 TO 41 32 TO 36 27 10 31 22 10 26 17 10 21 12 10 16 7 10 11 2 10 6 +3 10 1 - 8 TO-4 - 13 to - º - 18 TJ -- 14 .. 23 TO~19 - 28 TO -24 -33 70 -29 -38 TO-34 39 . ن 1 43 44 . 19 10 44 53 TU - 44 -58 TQ - 54 41.1 2450 100.0 10.6 1.5 9.3

PERCENTAGE FREQUENCY OF AIR TEMPERATURE VS.
WIND DIRECTION

ALLAS, TX

JANUARY 1973-DECEMBER 1982 SEPTEMBER

		5 TATION 14					«FAR"			ODNIA	
				W	IND DIRE	CTION					
TEMP.	NNW N 8	NNE .	ENE & E	ESE & SE	\$5E & 5	ssw & sw	WSW 8 W	WNW B NW	CALM	TOTAL FREG.	F. OF
122 -											
17 10 121										1	
12 10 116											
107 TO TH											
102 10 106								100.0		1	•
27 10 101	5.4		15.3	10.3	40.5	21.6			1009	37	1.
92 10 90	1.4	4.9	9.7	17.2	44.1	13.8	.7	2.1	12	145	6.
87 1.3 91	5.9	6.6	11.7	26.6	37.5	3.1	. 8	1.6	6.3	256	10.
B2 10 86	8.1	6.5	12.2	17.7	37.1	9.6	.3	1.9	6.5	385	16.
72 10 81	8.4	9.2	9.8	17.0	37.0	6.3	.4	1.4	10.4	489	20.
72 10 76	16.8	7.9	8.9	15.8	22.9	7.9	.8	2.2	16.8	506	21.
67 10 71	78.1	17.4	9.6	8.9	12.8	. 7	2.1	4.3	16.0	281	11.
62 10 66	33.1	11.3	8 . 6	4.0	9.3	3.3	1.3	8.6	70.5	151	6.
57 10 61	44.1	18.6	5,9	2.0	3.9	2.0	5.9	5.9	11.8	102	4.
52 10 56	2.2	13.9	5.6		5.6	2.8		13.9	36.1	36	1.
47 TO 51	18.2	9.1			9.1	18.2			45.5	11	•
42 TO 46											
27 10 41		i									
32 TC 36											
27 10 31		i									
22 TO 26							_				
1/ 10 21											
12 10 16											
7 10 11											
2 10 6											
-3 10 1											
810-4											
-13 70 -9											
-18 10-14		! 	. ,	·							
23 TO - 19											
28 10 24				·						i	
-33 10-29			i								
-38 to-34								]			
-43 TU = 39	I				I						
48 TO - 44					I						
-53 10 -47	I					I					
- 58 70 - 54				I	T						
- 50 & LWR	I										
TOTALS	15.C	9.4	9.8	15.D	28.0	6.5	1.0	2.9	12.3	2400	100.

WIND DIRECTION

VS. WIND DIRECTION

MALLES TX

6

JANUARY 1973-DECEMBER 1982 CC

CETOBER ---

TOTAL 122 -117 70 121 107 10 111 102 TO 106 66.7 33.3 97 TO 101 10.5 10.5 52.6 92 10 96 15.8 10.5 8 2.5 1.6 4.9 39.3 187 10 91 6.6 16.4 16.4 3.3 3.3 8.2 61 3.5 5.9 11.8 54.7 4.1 10.6 3.5 4.7 170 6.9 82 10 86 1.2 31 8 5.3 2.5 6.3 21.7 45.3 6.9 3.5 1.9 12.8 6.6 77 10 81 7.1 7.9 47.2 5.9 5.8 15.0 7.1 381 72 10 76 1.6 3.1 15.4 10.3 7.0 14.5 36.4 11.2 1.4 2.8 8.9 429 17.3 67 10 71 19.5 15.1 5.7 6.7 14.3 23.0 8.9 1.0 5.9 405 16.3 62 10 66 9.2 20.8 283 6.4 7.8 12.4 3.5 9.9 20.8 57 10 61 9.2 11.4 23.2 7.7 2.9 4.8 10.1 13.0 3.9 26.1 207 8.3 8.2 52 TO 56 30.3 10.9 5.0 47 10 51 2.5 5.9 4.2 6.7 31.1 110 4 . 4 27.9 1.5 14.7 5.9 30.9 69 2.7 4.4 42 10 46 15 26.7 13.3 13.3 40.0 37 TO 41 •6 100.0 •7 32 10 36 100.0 1 27 10 31 17 10 21 12 10 16 7 10 11 2 10 6 - 101 610-4 - 18 10 -- 14 -23 10 - 19

NAVWEASERVCOM

-33 TO-29 -38 10 -34 -43 10 - 39

-58 10 -54

TOTALS

13.2

5 . 3

12.7

30.7

9.6

2487 100.0

#### WIND DIRECTION

JANUADY 1973-BECEMBER 1982

TENTP.	NNW & N	NNE	ENE	ESE	SSE	\$5 V/	ws.	WNW	SALM	TOTAL	C. OF
122 -	- "	8 NE	3.6	A SE	- <b>&amp;</b> S	8 SW	8 %	& NW	-	TREG.	10141
17 TO 121			+								
12 10 116											
07 10 111	<del></del>						<del></del>		+		
02 TO 106	+						+		<del>-</del>		
7 10 101											
2 10 %											
11391									170.0	1	
2 TC 96	4.3	+		13.0	34.5	30.4	3.7		5.7	2 3	1.
7 10 81	2.7	1.4	1.4	9.5	51.4	12.2	5.4	4 . 1	12.2	74	3.
2 10 16	6.7		1.2	10.4	62.8	7.9	4.9	1.5	4.3	164	6
7 10 /1 :	4.9	2.3	3.4	12.0	52.6	9.4	3.8	5 . 3	6.4	265	11.
2 10 66	10.2	3.3	3.9	11.8	39.8	11.5	4.6	5.6	9.2	304	17
7 10 61 1	15.1	4.9	4.0	12.0	29.7	8.6	4.6	7.4	13.7	357	14
2 10 56	17.5	6.8	7.3	11.8	19.2	7.0	3.4	11.0	16.1	355	14,
7 10 51	27.5	6.9	6.9	5.7	16.6	8.3	2.9	11.2	14.0	340	14
2 TO 46	70.4	7.8	3.1	2.7	7.0	6.6	5.1	17.9	19.5	257	10.
7 10 41	12.2	3.4		1.4	1.4	8.9	4.1	22.6	26.7	146	6.
2 TO 36	53.3	5.3	2.7	1.3	2.7	12.0	6.7	13.3	72.7	75	3.
7 TO 31	26.9					37.9		26.9	15.4	26	1.
2 10 26	25.0					25.0		37.5	12.5	3	
7 10 2						100.0			-	1	
2 TO 16		1				100.0				1	
10.11										1	
10 6										1	
3 10 1				T							
8.10-4				· · · · · · · · · · · · · · · · · · ·	i						
13 10 - 9											
18 10 - 14					1			i			
23 10 - 13											
28 TO -24					:						
33 10 - 29					+		↓				
38 10 - 34									I		
-43 10 - 39					i		· İ	↓			
45 T-1 44		i									
53 1 3 - 44											
-08 10 14				1.		1	i	i	i		

JANUARY 1973-DECEMBER 1987

					IND DIRE	CTION	r				
TEMP.	NNN N &	NNE 8 NE	ENE & E	ESE & SE	55E & 5	55W 8-5W	00 S 00 8 00	8 NV	SALM	TOTAL FREQ.	- OF
122 -				1							
17 10 121											
17 10 116											
167 10 111		1									
102 TO 196								1			
P7 TO 101				1							
92 TO 96			1								
B7 TO 91							100.0			1	
82 10 86 ,						100.0				3	
77 TO 8' ;					46.2	38.5	7.7	7.7		1 7	•
72 10 76	2.1				37.4	23.4	17.8	4.3		47	1.
67 TO 71	2.0			5.0	55.D	21.0	9.0	5 • ∂	3.0	100	4.
62 TO 60	4.3	• 5	1.0	3.4	54.9	11.1	7.7	4.5	2.4	2∷8	8.
57 TO 61	10.1	2.0	4.0	€ • 1	42.3	10.9	7.3	5.6	5.9	243	10.
52 0 56	10.9	4.6	2.6	8.6	37.4	12.3	3.3	8.9	11.3	372	12.
47 TO 51	16.0	3.4	5.2	10.3	26.0	9.8	€.4	11.9	11.1	388	15.
42 TO 46	23.6	7.2	5.4	9.3	17.8	10.0	4.2	9.8	12.6	429	17.
.T TC 41	28.6	3.8	4.7	7.6	9.6	8.7	5 • 2	14.9	16.9	343	13.
12 36	77.4	4 . G	. 4	4.4	6.2	12.3	2.2	15.4	17.6	227	9.
21 11 11	40.0	3.5		1.7	7.8	17.4	5.2	14.9	9.6	115	4.
22 FO 25	42.2	8.9	2.2			15.6	2 • 2	27.0	8.9	45	1.
1 10 0	71.4					14.3			14.3	7	•
	100.0									7	•
7											
2 to t	i				I			·			
			·				,				
8 ° 2 - 4											
13 *.1 3		· ·	Ţ.								
18 12 -41							_				
21.10 -14											
8 1(2) 24											
- 33 TU - 27											
38 1 1 14		·	1								
4. 2. 2.					]						
4-1-11-			- 1				1				
4.			•	•						1	
2810 4											
4.6.28				+-							
TOTALS	19.7	3.5	7 . 3	7.1	27.2	11.6	5.4	1 .5	11.1	247	100.

VS.

WIND DIRECTION

JANUARY 1973-DECEMBER 1982 TALLAS, TX

					IND DIRE	CTION					
TEMP.	NNV:	NNE 8 NE	ENE 8 F	ESE & SE	322	55W & 5W	WSW A A	WNW & NW	CALM	TOTAL FREQ.	% OF
122 -											
117 10 121											
112 10 116			1							-	
107 TO 111			72.2		33.3	22.2	11.1		11.1	0	• 1
102 Tu 106	1.1		10.2	17.0	52.3	6.8	4.5	1.1	6.9	9.5	• 3
97 10 101	2.0	1.8	7.0	20.2	52.7	7.7	3.2	. 5	4.8	44-	1.5
92 . 9 90	1.8	3.0	6.5	16.6	57.3	8.3	1.8	1.2	3.5	1174	4 . ()
87 10 41	4 . 2	3.7	8.2	20.0	47.3	8.3	2.2	1.9	4 . 3	1750	6.0
82 10 86	4.3	4.0	7.7	16.4	48.9	19.6	1.9	1.5	4.7	2563	8.8
77 °C 81	5.4	4.2	6.6	15.0	46.2	13.7	2.2	2.0	7.8	3423	11.7
72 10 76	8.2	4.3	6.7	14.6	40.4	13.4	2.5	2.7	9.6	3386	11.6
67 10 71	10.4	5.9	6.9	12.5	38.1	8.9	3.3	5.1	9.9	2813	9.6
162 0 60	13.2	5.1	6.3	11.9	33.6	9.0	3.5	6.4	16.9	2488	3.5
57 70 61	17.2	6.6	5.4	10.2	27.2	9.3	4 . 7	7.5	11.8	2247	7.7
52 10 56	17.2	6.3	6.1	9.3	23.3	9.9	4.2	10.2	13.4	2042	7.7
47 10 31	1.0	5 . F	5.5	8.3	17.9	9.3	5.3	12.8	13.1	1856	6.4
4. 10 45	25.5	7.8	5.8	7 . 3	14.1	8.1	4 . 3	12.7	14.4	1634	5.6
.7 TC 41	25.5	6.2	5.8	6.2	11.8	8.5	4.2	15.2	16.6	1352	4.6
32 TO 16	32.2	10.2	4.3	5 . 2	7.8	8.7	2.5	13.2	15.9	951	3.3
27 10 31	40.3	7.1	6.1	3.6	5.9	10.5	2.1	13.5	10.9	551	1.0
22 10 26	50.9	6.2	1.7	1.4	5.9	5.9	1.4	17.0	9.7	280	1.7
1 10 21	· C • 6	6.7	1.0	1.0	3 . 8	4.8	1.9	12.6	4.6	104	. 4
1. 7. 16	35.7	2 . 4	1	2.4	_	14.3		35.7	9.5	42	• 1
7 10 11	57.1				1			14.3	28.6	7	0.
2 10 c	i				100.0	i				1	• ?
- 3 77 1			<del> </del>								
a 1 ) = 4					- · · · · · · · · · · · · · · · · · · ·		I				
12.13 4			i		·						
18 73 . 14		•									
20 10 10											
25 T. 24											
-3, 12-29		· · · · · · · · · · · · · · · · · · ·	· · · · I	· · · · ·			·				
25 10 -34			- +-	+							
40 % 39					** ** * <del>*</del>						
15 13					1						
42				•	· · · · · ·						
75 75 34		•	*								
		;									
TOTALS	13.5	5 . 4	6.5	12.2	33.7	9.4	3.2	6 . 2	9.9	29212	100.0

Noch, Federal Building Asheville, N. C.

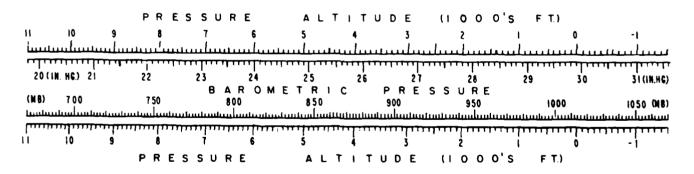
#### PART F

#### PRESSURE SUMMARY

Presented in this part are two tables giving the means, standard deviations, and total number of observations of station pressure and sea-level pressure by month and annual for the local hourly observations corresponding to the eight 3-hourly synoptic times GCT. The same computations are also provided at the bottom of the page for all hours combined. All years of data available are combined in both of these tables, although the overall period is limited to January 1946 through December 1963 because of changes in reporting practices before and after those dates.

- 1. Station pressure in inches of mercury.
- 2. Sea-level pressure in millibars.

Provided below is a scale to convert station pressure values in inches of mercury or millibars to pressure altitude in 1000's of feet. This scale is an enlarged model of the pressure altitude scale in the Smithsonian Meteorological Tables.



# **MEANS AND STANDARD DEVIATIONS**

SEA LEVEL PRESSURE IN MBS FROM HOURLY OBSERVATIONS

93901

DALLAS, TX

73-92

HRS.(L.S.T.)		JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	ANNUAL
	MEAN			1014.5										1016.5
13	S. D.	A . 148	7.849	7.128	6.006	4.950	3.961	2.534	2.560	4.173	5.580	6.878	7.899	6.578
	TOTAL OBS			310										3650
					• • •									
	MEAN	1021.0	1019.8	1014.5	1014.6	1011.9	1013.3	1014.6	1014.9	1015.1	1017.5	1017.0	1019.7	1016.3
r; •	S. D.	A . 337	7.914	7.150	6.139	4.992	4.054	2.582	2.545	4.176	5.628	6.923	7.992	6.641
	TOTAL OBS	310	282	310	300	310	299	310	310	300	310	300	310	3651
	MEAN	1021.2	1020.2	1015.1	1015.3	1012.7	1014.2	1015.4	1015.7	1015.8	1018.3	1019.4	1019.7	1016.9
3.4	\$. D.			7.243										6.556
	TOTAL OBS												310	3(51
	MEAN	1022.6	1021-5	1016.4	1016.4	1013.8	1015.2	1016.4	1016.7	1316.9	1019.6	1020.8	1021.1	1014.1
	\$. D.			7.379										6.713
	TOTAL OBS	310						313						3651
					200									
	MEAN	1.722.3	1021.2	1016-0	1015.9	1013.2	1014.7	1015.6	1016.1	1016.3	1018.8	1020.0	1020.5	1017.5
1 -	S. D.			7.337										6.726
•	TOTAL OBS			310										3652
					200		200							
	MEAN	1019.8	1018.4	1013.6	1013.9	1011.5	1012.9	1014.0	1014.0	1014.1	1016.5	1017.8	1018.3	1015.4
1	S. D.			7.225										6.591
• •	TOTAL OBS			310										
	MEAN	1020.1	1018.7	1013.1	1013.1	1010.6	1011.8	1013.0	1013.1	1013.8	1016.4	1018.0	1018.6	1015.0
1 .	\$. D.			7.214										6.715
•	TOTAL OBS			310									1 - :	3651
												-	7.	
	MEAN	1021-0	1019.7	1014.3	1014-4	1211.7	1012.7	1013.9	1014.3	1015.0	1017.5	1019-0	1019.7	1016.1
7.1	S. D.	4.303	7.641	7.162	6.051	9.832	4.047	2.552	2.644	4.242	5.660	6.992	7.804	6.663
- •	TOTAL OBS	310		310		318		310						3650
***************************************			-	7.4			- 7					1		
	MEAN	1021-2	1020-0	1019.7	1014.6	1012.2	1013.5	1014.7	1015.0	1015.3	1017.8	1019.1	1019.7	1016.5
ALL HOURS	S. D.	8.333	7.890	7.296	6.266	5.046	4.151	2.788	2.619	4.342	5.793	7.261	8.100	6.721
HOURS	TOTAL OBS			2480										29208

# **MEANS AND STANDARD DEVIATIONS**

STATION PRESSURE IN INCHES HE FROM HOURLY OBSERVATIONS

97901

DALLAS, TX

73-82

STATION			51	TATION NAME						YEARS				
HRS.(L.S.T.)		JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	ост.	NOV.	DEC.	ANNUAL
	MEAN	29.642	29.610	29.464	29.472	29.397	29.437	29.473	29.481	29.486	29.550	29.589	29.634	29.51
20	S. D.	.232	.222	-204	.173	.143	.117	.075	.076	.119	.159	.196	. 226	-14
· <del>-</del>	TOTAL OBS	313			300	310	299	309	310			300	29.674 .226 .310 29.598 .279 .310 29.598 .233 .310 29.637 .236 .310 29.557 .310 29.557 .310 29.557 .310 29.557 .310 29.557 .310 29.557 .310	369
	MEAN	29.634	29.670	29.454	29.461	29.387	29.430	29.470	29.479	29.481	29.547	29.583	29.598	29.5
77.7	S. D.	.237	.224	.205	.176	.144	.119	.076	.076	.119	.161	.197	.229	• 1
	TOTAL OBS	310										300	29.674 .226 310 29.598 .279 310 29.598 .233 310 29.637 .236 310 29.621 .237 310 29.557 .234 310 29.566 .226 309 29.597 .232	36
	MEAN	29.637	29.611	29.470	9.479	29.408	29.456	29.494	29.501	29.530	29.568	29.594	29.598	29.5
	S. D.	.237	. 222	. 207	.180	.144	.118	.077	-C76	.120	.164	.199	.233	.1
	TOTAL OBS	310											310	36
	MEAN	29.677	29.650	29.509	29.513	29.440	29.485	29.522	29.530	29.534	29.605	29.633	29.637	29.5
j 4	S. D.	.240	1 1	,		1	.119	1	1	1	1	l .		- 1
	TOTAL OBS	310									•			36
	MEAN	29.671	29.643	29.496	29.499	29.424	29.470	29.507	29.513	29.516	29.583	29.612	29.621	29.5
1 ~	\$. D.	.238	.227	.210	.183	.146	.118	.076	.078	.122	.166	.204	.237	• 1
	TOTAL OBS	310						1 -		f		(		36
	MEAN	29.600	29.573	29.427	29.442	29.375	29.420	29.454	29.453	29.454	29.518	29.548	29.557	29.4
1	S. D.	.237	. 222	.207	.180	.144	.118	.076	.077	.124	.165	.203	.234	•1
	TOTAL OBS	310	252	312			300	310	310	300	310	300	29.674 .226 .310 29.598 .279 .310 29.598 .233 .310 29.637 .236 .310 29.621 .237 .310 29.557 .234 .310 29.566 .26 .309 29.597 .223 .309	30
	MEAN	79.676	29.569	29.412	29.417	29.347	29.386	29.423	29.425	29.442	29.512	29.551	29.566	29.4
17	S. D.	.234	. 220	.206	.177	.143	.117	.076	.077	.123	.163	.200	.226	•1
	TOTAL OBS	310	752	310	300	310	300	310	310	300	310	300	309	36
1	MEAN	27.632	29.598	29.448	29.455	29.38C	29.414	29.450	29.460	29.478	29.545	29.581	29.597	29.5
	S. D.	.237						.076	.079		.162	.200	.223	• 1
	TOTAL OBS	310	282	310	300	310	299	310	310	300	310	300	29.674 .226 310 29.598 .279 310 29.637 .236 310 29.637 .237 310 29.557 .237 310 29.557 .239 29.557 .239 29.557 .239 29.557 .239	36
ALL	MEAN	29.637	29.607	29.460	29.467	29.395	29.437					,	1 1	29.5
HOURS	S. D.	.237	. 224	.209			.122							• 1
	TOTAL OBS	2480	2256	2483	24 20	2479	2394	2479	2480	2400	2480	2400	2978	292

# END DATE FILMED 7-85